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FIGURE 1122

TGTCCGGCGCCCCCGGGAGGGAAC TGGGTGGCCGCACCCTCCCGGCTGCGGTGGCTGTGCGCCCCCACCCTGCA
GCCAGGACTCGATGGAGAATCCATTCCAATATATGGCCATGTGGCTCTTTGGAGCAATGTTCCATCATGTTCCAT
GCTGCTGCTGACGTCACATGGAGCACAGAAATCAATGTTAGCAGATAGCCAGCCCATACAAGATCGTATTGTATT
GTAGGAGGCATCGTGGATGGATGGCTGCTGGAAACCCCTTGCCATAGCCAGCTCTTCTTCAATACTTAAGGATTT
ACCGTGGCTTTGAGTAATGGAGAATTTGAAACCACATTTGAGAAGTATTTCCATCCAGTGCTACTTGTGTTTACT
TCTAAACAGTCATTTTCTAACTGAAGCTGGCATTTCATGTCTTCATTTTGGGCTGTTTCAGTGCAGGGCTTCCTAA
AACAGAAGCCAACTGGGTGAATGTAATAAGTGATTTGAAAAAAATTGAAGATCTTATTCAATCTATGCATATTGA
TGCTACTTTATATACGGAAAGTGATGTTACCCCCAGTTGCAAAGTAACAGCAATGAAGTGCTTTCTCTTGGAGTT
ACAAGTTATTTCACTTGAGTCCGGAGATGCAAGTATTCATGATACAGTAGAAAATCTGATCATCCTAGCAAACAA
CAGTTTGTCTTCTAATGGGAATGTAACAGAATCTGGATGCAAAGAATGTGAGGAACTGGAGGAAAAAAATATTAA
AGAATTTTGCAGAGTTTGTACATATTGTCCAAATGTTTCATCAACACTTCTTTGATTGCAATTGATTCTTTTTAA
AGTGTTCGTATTATTAACAAACATCACTCTGCTGCTTAGACATAACAAAACACTCGGCATTTAAATGTGCTGTC
AAAACAAGTTTTTCTGTCAAGAAGATGATCAGACCTTGGATCAGATGAACCTTTAGAAATGAAGGCAGAAAAATG
TCATTGAGTAATATAGTGACTATGAACCTTCTCTCAGACTTACTTTACTCATTTTTTTAATTTATTATTGAAATTG
TACATATTTGTGGAATAATGTAAATGTTGAATAAAAAATATGTACAAGTGTTGTTTTTTAAGTTGCACTGATATT
TTACCTCTTATTGCAAAATAGCATTTGTTTAAGGGTGATAGTCAAATTATGTATTGGTGGGGCTGGGTACCAATG
CT

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FIGURE 1123

MRISKPHLRSSISIQCYLCLLLNSHFLTEAGIHVFILGCF SAGLPKTEANWVNVISDLKKIEDLIQSMHIDATLYT
ESDVHPSCKVTAMKCFLLELQVISLESGDASIHDTVENLIILANNSLSSNGNVTESGCKECEEELEEKNIKEFLQS
FVHIVQMFINITS

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FIGURE 1124

GGAGAAGGCGAGCGCGGCAGTCGCGCCGGCGCTGGGCGAGGAAGCGGAGCCGGGCCGCTCCGGAAAAATGGCTCC
AAAGGTTAAATGAAGCAGGAAAAATACATAGATGCAGCCTTGCAGCCTCTCCAGATGTTTGGGGATAATATTCCA
GATAGAAATATTGATCCCTTGGATTAGGTAAGTATGTCATAATGAAGAAAATTAGTCTTAAACCTTACGGAAATC
TTTTAAGCTTGAATAAAAGTAAAGAAGAACTGATTTTCATGGTAGTACAACAACCATCGCTAGCCAGTGACTTTGG
AAAAGATGATTCTTATTGTTAGCTGCTATGGTAAAGATATGGCCAGCTGCGATATCAACGGTGAAGATGAAAA
AGGCGGAAAAACAGATCAAAAAGCGAGAGCCTGATGGGTACGCTAAAAAGGCGGCTTTCTGCAAAACAGAAGTC
AAAAGGCAAGGCGGGCACACCCTCTGGGAGCTCTGCCGACGAGGACACCTTCTCCTCCTCCTCAGCACCCATAGT
CTTTAAAGACGTGAGAGCTCAGAGGCCGATAAGGTCCACGTCGCTCCGCAGCCATCACTACAGTCCCGCGCCGTG
GCCTCTGCGGCCCCACAACTCCGAGGAGACCTGCATCAAGATGGAGGTGAGAGTCAAGGCCTTGTTTCACTCTTC
CAGCCCCGAGTCCAGCCCTGAATGGCGTCCGGAAGGATTTCCACGACCTCCAGTCTGAGACCACGTGCCAGGAGCA
AGCCAATTCAGTGAAGAGCTCGGCTTCTCATAATGGAGACCTGCATCTTCACCTGGATGAACATGTGCCTGTCTGT
TATTGGACTTATGCCTCAGGACTACATTAGTATACTGTGCCTTTAGATGAGGGGATGTATCCTTTGGAAGGATC
ACGGAGCTATTGTCTGGACAGCTCTTCTCCCATGGAAGTCTCTGCGGTTCTCCTCAAGTGGGAGGGCGCGCTTT
CCCCGAGGATGAGAGTCAGGTAGACCAGGACCTAGTTGTGCCCCAGAGATCTTCGTGGATCAGTCCGTGAATGG
CTTGTTGATTGGCACACGGGAGTCATGTTGCAGAGCCCCGAGAGCGGGTCACGATGATGTCCCTCCACTCTCACC
ATTGCTACCTCCAATGCAGAATAATCAAATCCAAAGGAACCTTCAGTGGACTCACTGGCACAGAAGCCCACGTGGC
TGAAAGTATGCGCTGTCATTTGAATTTTGATCCGAACCTCTGCTCCTGGGGTTGCAAGAGTTTATGACTCAGTGCA
AAGTAGTGGTCCCATGGTTGTGACAAGCCTTACAGAGGAGCTGAAAAAACTTGCAAAGCAAGGATGGTACTGGGG
ACCAATCACACGTTGGGAGGCAGAAGGGAAGCTAGCAAACGTGCCAGATGGTTCTTTTCTGTTTCGGGACAGTTC
TGACGACCGTTACCTTTTAAGCTTGAGCTTTTCGCTCCCATGGTAAAAACACTTCACACTAGAATTGAGCACTCAAA
TGGTAGGTTTAGCTTTTATGAACAGCCAGATGTGGAAGGACATACGTCCATAGTTGATCTAATTGAGCATTCAAT
CAGGGACTCTGAAAAATGGAGCTTTTTGTTATTCAAGGTCTCGGCTGCCTGGATCTGCAACTTACCCCGTCAGACT
GACCAACCCAGTGTCCCGGTTTCATGCAGGTGCGCTCGTTGCAGTACCTGTGTCTGTTTTGTTATACGTCACTATAC
CAGAATAGACTTAATTCAGAACTGCCTTTGCCAAACAAAATGAAGGATTATTTACAGGAGAAGCACTACTGAAA
GATTGAGAACCCTGCTCTTGCACCTTTGGGAATAAGAACAAGAGATTGAAATACAGTTTACAACTTTTCATTGCC
ATCAAAATCTTTTGCTGCCATAACTATTTTCAGTTTTATGTGTAAGAGTCATCAGTTTGTGTTAGGGGTGGGGAA
GTGTCAGCAAGGTGTCTTGGGTTTATTTTGGTTCTTTAAAAAAGGGAAGTCTTGAGGTTTTAGAGGTGTGAATTA
TGTTTCATCAATGTGCAGAATAATCACAAATGTGAATTATCAAATCTCCTCAATGCCCCCCCCCGCCAGTCCCTT
GCTGCTATCCACTGTGATTTTTATGCATTAAAAGCACATTTTCATGTGTATTCAACCCTAAGTAAAGTTGAATGAA
ACTTAACAGAAATGGAAATTGCTATGTCTTTTAAATGGTCCATTTTCAAAGACAGTGTGTAATAACATACCTG
TGTGATAAAACACAGAATTTACATATACACTGAAGATGAGTTTTAATCTCTTACTTTAAAAAGATTTATTTAGA
ATCGTGAATTGACATAATCTTGGGTAATGGAACGGAGATCTGCAACATATCTTTTAAACAACACTTTTTCTAAAT
TATTTCTAAGGTTGTGCTAATCTTTTGGTTGTGAAAAGTTGAATTTTTCTGTTGCCTTCGTTTTTCATCTTCTAG
TTTGTCTATTTTAAATAAATGGCCTTACATTAAAAAATTGTAAAGAAATGTATACCACCAATTTAGAAATTGTGTC
CTTTTCTGTAATTAACTCGGGTACAAATTGGCATAACATGAAAACCTATGGAAGTAAATTATTATTAAAGAAA
TATTAGATGAAAAAAAAAAAAAAAAA

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FIGURE 1125

MKKISLKT LRKSFNLNKSKEETDFMVVQQPSLASDFGKDDSLFGSCYGKDMASCDINGEDEKGGKNRSKSESLMG
TLKRRLSAKQKSKGKAGTPSGSSADEDTFSSSSAPIVFKDVRAQRPIRSTSLRSHHYSAPWPLRPTNSEETCIK
MEVRVKALVHSSSPSPALNGVRKDFHDLQSETTCQEQANSLKSSASHNGDLHLHLDEHVPVIGLMPQDYIQYTV
PLDEGMYPLEGSRSYCLDSSSPMEVSAVPPQVGGRAPEDESQVDQDLVVAPEIFVDQSVNGLLIGTTGVMLQSP
RAGHDDVPPLSPLLPPMQNNQIQRNFSGLTGTEAHVAESMRCHLNFDPN SAPGVARVYDSVQSSGPMVVTSLTEE
LKKLAKQGWWGPITRWEAEGKLANVPDGSFLVRDSSDDRYLLSLSFRRSHGKTLHTRIEHSNGRFSFYEQPDVEG
HTSIVDLIEHSIRDSENGAFCYSRSLPGSATYPVRLTNPVSRFMQVRSLQYLCRFVIRQYTRIDL IQKLPLPNK
MKDYLQEKHY

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FIGURE 1126

GTACCGGTTTCGGAATTCCCGGGTCGACCCACGCGTCCGGAAGGCTACAGAGAGAGCCAGGTTTTGGTGCCATGCA
CACAGGGAAACTTAGAGTTCAGAGAGGGGGTGTGATTTCGCTGACCTCACACAGCAAGTTAGAGACCCAGCTCCA
CGACTCATTGTCTTGCTGCCCAGAGCTGCTGGCTCCCCTGTTTACTCTGAGCTGATCGATCACCTTAGCACACAG
CTGGCTAGGAGAGAACCATGCAGTCACTTCGGCCACACCTGCCCGTTGACCCTTGCTACCTCGGCAGGCTTTGAT
CCCTTCTGACCTGGAGGCCAGAGGCTAGGCTGAGGTCACTCAGCAGACATCAAGGACCTGGGCAGATGGGCCGGC
TGGGATGGTGGCGAGCTGTACAGATAAAAAGGGACATGAAAATGAAAAGCCCGAGCCTGAGTTTTTCATCACGGTT
CCACTCCTGAGTGGTCTTGGGTGAATCACTTCATCTGCCAAGGCCTGGATTTCCTCATCTGCAAACCTCAGAAAAC
TAAGGCTTTGGCCCTCGTCATCCTGCCACCCAGCGGGGCTTCCCAACCCACCACACAGCCATGGACGGGAAGGT
GGCAGTGCAAGAGCGTGGGCCTCCTGCGGTCTCCTGGGTCCCCGAGGAGGGAGAGAAGTTGGACCAGGAAGACGA
GGACCAGGTGAAGGATCGGGGCCAATGGACCAACAAGATGGAGTTTGTGCTGTCAGTGGCCGGGGAGATCATTGG
GCTGGGCAATGTCTGGAGGTTTCCCTATCTCTGCTACAAAACGGAGGTGGAGCCTTCTTCATCCCCTACTTCAT
CTTCTTCTTTGTCTGCGGCATCCCGGTGTTCTTCTGAGGTGGCGTTGGGCCAATACACCAGCCAAGGGAGTGT
CACAGCCTGGAGGAAGATCTGCCCCCTCTTCCAGGGCATTGGTCTGGCATCTGTGGTCATCGAGTCATATTTGAA
TGTCTACTACATCATCATCCTTGCCCTGGGCTCTCTTCTACCTGTTACGCTCCTTCACCTCTGAGCTGCCCTGGAC
GACCTGCAACAACTTTTGGAACACAGAGCATTGCACGGACTTTCTGAACCACTCAGGAGCCGGCACAGTGACCCC
ATTTGAGAATTTTACCTCACCTGTCTGGAATTCTGGGAGAGACGAGTTCTGGGCATCACCTCGGGCATCCATGA
CCTGGGCTCCCTGCGCTGGGAGCTGGCCCTGTGCCTCCTGCTCGCCTGGGTCATCTGCTATTTCTGCATCTGGAA
GGGGGTCAAGTCCACAGGCAAGGTGGTTTTATTTACAGCCACGTTTCCGTACCTGATGCTTGTCATTTTGTCTGAT
CAGAGGTGTACCCCTTCCCGGAGCCTACCAGGGCATCATCTACTACTTGAAGCCAGATTTGTTCCGCCTCAAGGA
CCCTCAGGTGTGGATGGATGCGGGCACCCAGATCTTCTTCTCCTTTGCCATCTGCCAGGGGTGCCTGACAGCCCT
GGGCAGCTACAACAAGTATCACAACAAGTGTACAAGGACTGCATCGCCCTCTGCTTCTGAACAGTGCCACCAG
CTTTGTGGCTGGGTTTTGTTGTCTTCTCCATCCTGGGCTTCATGTCCCAAGAGCAAGGGGTGCCATTTCTGAAGT
GGCCGAGTCAGGTCTTGGGCTGGCCTTCATCGCCTTCCCCAAGGCTGTGACTATGATGCCCTTATCCCAGCTGTG
GTCCTGCCTGTTCTTTATCATGCTCATATTCCTAGGGCTGGACAGCCAGTTTGTCTGTGTGGAGTGCCTGGTGAC
AGCCTCCATAGACATGTTCCCCAGGCAGCTCCGGAAGAGCGGGCGGCGAGCTCCTCATCCTCACCATCGCCGT
CATGTGCTACCTGATAGGGCTTTTCTTGGTACCGAGGGCGGGATGTACATCTTCCAGCTGTTTGACTACTATGC
TTCCAGTGGCATATGCCTGCTGTTCCCTGTCAATTGTTTGAAGTGGTCTGCATAAGCTGGGTGTATGGGGCGGACCG
TTTCTATGACAACATTGAGGACATGATTGGCTACCGGCCATGGCCCCCTGGTGAAGATCTCCTGGCTCTTCTGAC
CCCTGGACTTTGCTGCGCACTTTCTCTCTCTTGGCAAGTACACCCCCCTCAAGTACAACAACGTCTATGT
GTACCCGCCCTGGGGATACTCCATTGGCTGGTTCTGCTGCTGCTCCTCCATGGTCTGTGTCCCACTCTTCGTCGT
CATCACCTCCTGAAGACTCGGGGTCTTTTCCAGGAAGCGTCTGCGTCACGTCATCACCCCTGACTCCAGTCTGCC
ACAGCCCAAGCAACATCCCTGCTTGGATGGCAGTGTGGCCGGAACCTTGGGCCCTCCCCAACAAGGGAAGGACT
GATAGCCGGGGAGAAAGGAGACCCATTTGTAGGGTGTGGCCAGAGCGAGGCGGCTCCTAAGCCGGGAACCTAGGTC
AGGGCCACCCCTCCATTCTCAGCGGACAGCCTCTGCCTCTGTCTCCTGCCACAATCCTGCTGGGAACCTCTGGAGAG
CCACAGGCACCCCCAGCTGGAGGCCAGACTCCTCTCTTGTGCTAGCTGGAGCAGCTCCTTCCCCTTTGCTGATAA
CACCACCACTGGGACGTGCCATGTTGGGACGCCACTCCCTGTGGAAGGCACCATCGTTTTTATAAAGGGGGGTCT
TTTTGGAGGCCGCCATCTGATTGCAACACCTCGAGTTATGAGGATTCCACTGTGGGGATGCCTCTTGTTAGAGCG
TACTGCATTTGTACACGGGGAGAGGAGCTATAATTGGAACGCACACTGCCGTCCAATGTGGAGAGCCTGATGGGA
CAATACCCTGTTGGAAGTGACAACCTGAACACACTGTGTTGGATCGGAGGTTCCGTTAGGGGATCCTTCCCTTAGGC
TTAACGACAGAGGCAAGCCTTTGCATGCCGTGAGTCTGGAGTTTCTCCGAGTCTCTCATGGCATCTCCAGCTCC
TGCCCTAGTTCCGCACTGTTCTTGCAGTGTTCATCAACTCCTGGAGCATTTGGAATGGAAGGGGCTTGGGAGATG
ATTCTAGACTTCACAAAACCTCGGCATGCCTCCCTGCACTGTCCGTTCCCTCTGCCCAAGGCCGATATTGCTAAC
TGATCACAGATTCTTTCCACCTCACAATCCTCCGAATGTGCTCCAGGCGACACCATTGCCATCCTGCTTCTAA
CGCAAACCCCTGACTTCATGGATGAGGAACCTGGAGACCAAAGAGACAAAGGGACTTTTTCAAGTTACATGGGG
ACCCCTTCTTGGGGGCCAGAGATATGACTAAAACCTTATCTCCTTGTGCTCAGGCCAGTGTCTTCCCATTAACC
CCCTGCCTTAGTTAACAAGTGTGTATGGATTGCCA

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FIGURE 1127

MDGKVAVQERGPPAVSWVP EEGEKLDQEDEDQVKDRGQWTNKMEFVLSVAGEIIIGLGNVWRFPYLCYKNGGGAFF
IPYFIFFFFVCGIPVFFLEVALGQYTSQGSVTAWRKICPLFQIGIGLASVVI ESYLN VYYYIIILAWALFYLFSSFTS
ELPWITC NNFWNTEHCTDFLNHSGAGTVTPFENFTSPVMEFWERRVLGITSGI HDLGSLRWELALCLLLAWVICY
FCIWKG VKSTGKV VYFTATFPYLM LVILLIRGVTLPGAYQGIIYYLKPDLFRLKDPQVWMDAGTQIFFSFAICQG
CLTALGSYNKYHNNCYKDCIALCFLNSATSFVAGFV VFSILGFMSQEQGVPISEVAESGPGLAFIAFPKAVTMMP
LSQLWSCLFFIMLIFLGLDSQFVCVECLVTASIDMFPRQLRKSGRRELLILTIAVMCYLIGLFLVTEGGMYIFQL
FDYYASSGICLLFLSLFEVVCISWVYGADRFYDNIEDMIGYRPWPLVKISWFLFTPGLCLATFLFSLSKYTPLKY
NNVYVYPPWGYSIGWFLALSSMVCVPLFVVITLLKTRGPFKRRLRHVITPDSSLPQPKQHPCLDGSAGRNF GPSP
TREGLIAGEKETHL

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FIGURE 1128

CTTTTTAAGCTCCCCTGAGCCGGTGCTGCGCTCCTCTAATTGGGACTCCGAGCCGGGGCTATTTCTGGCGCTGGC
GCGGCTCCAAGAAGGCATCCGCATTTGCTACCAGCGGCGGCGCGGCGGAGCCAGGCCGGTCCCTCAGCGCCCAGC
ACCGCCGCTCCCGGCAACCCGGAGCGCGCACCCGAGGCCGGCGGCGGAGCTCGCGCATCCCAGCCATCACTCTTC
CACCTGCTCCTTAGAGAAGGGAAG**ATG**AGTGAGTCGAGCTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAA
AAGGACGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCGCAAGCAGCCTCCGAAGGAGCCCAGCGAAGTGCCAACA
CCTAAGAGACCTCGGGGCCGACCAAAGGGAAGCAAAAACAAGGGTGCTGCCAAGACCCGAAAACCACCACAAC
CCAGGAAGGAAACCAAGGGGCAGACCCAAAAAACTGGAGAAGGAGGAAGAGGAGGGCATCTCGCAGGAGTCCTCG
GAGGAGGAGCAG**TGA**CCCCATGCGTGCCGCCTGCTCCTCACTGGAGGAGCAGCTTCCTTCTGGGACTGGACAGCTT
TGCTCCGCTCCCACCGCCCCCGCCCCCTTCCCCAGGCCACCATCACACCGCCTCTGGCCGCCACCCCCATCTTC
CACCTGTGCCCTCACCACTACACAGCACACCAGCCGCTGCAGGGTCCCATGGGCTGAGTGGGGAGCAGT
TTTCCCCTGGCCTCAGTTCCCAGCTCCCCCGCCCACCCACGCATACACATGCCCTCCTGGACAAGGCTAACA
TCCCACCTAGCCGCACCCTGCACCTGCTGCGTCCCCACTCCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTTTG
GTTTGGGGGCGCCCTCTCTGCTCCTTCACTGTTCCCTCTGGCTTCCCATAGTGGGGCCTGGGAGGGTTCCCTGG
CCTTAAAGGGGGCCCAAGCCCCATCTCATCCTGGCAGGCCCTACTCCACTGCCCTGGCAGCAGCAGGTGTGGCCA
ATGGAGGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAAACTGTCTTTGTACCACGTGGGGCTCACTTTTCATC
CTTCCCCAACTTCCCTAGTCCCCGTACTAGGTTGGACAGCCCCCTTCGGCTACAGGAAGGCAGGAGGGGTGAGTC
CCCTACTCCCTCTTCACTGTGGCCACAGCCCCCTTGCCCTCCGCTGGGATCTGAGTACATATTGTGGTGATGGA
GATGCAGTCACTTATTGTCCAGGTGAGGCCCAAGAGCCCTGTGGCCGCCACCTGAGGTGGGCTGGGGCTGCTCCC
CTAACCTACTTTGCTTCCGCCACTCAGCCATTTCCCCCTCCTCAGATGGGGCACCAATAACAAGGAGCTCACCC
TGCCCGCTCCCAACCCCCCTCCTGCTCCTCCCTGCCCCCAAGGTTCTGGTTCCATTTTCTCTGTTCACAAAC
TACCTCTGGACAGTTGTGTGTTTTTTTGTTCATGTTCCATTCTTCGACATCCGTCATTGCTGCTGCTACCAGCG
CCAAATGTTTCATCCTCATTGCCTCCTGTTCTGCCCACGATCCCCTCCCCCAAGATACTCTTTGTGGGAAGAGGG
GCTGGGGCATGGCAGGCTGGGTGACCGACTACCCAGTCCCAGGGAAGGTGGGGCCCTGCCCCTAGGATGCTGCA
GCAGAGTGAGCAAGGGGGCCCGAATCGACCATAAAGGGTGTAGGGGCCACCTCCTCCCCCTGTTCTGTTGGGGAG
GGGTAGCCATGATTTGTCCAGCCTGGGGCTCCCTCTCTGGTTTCCTATTGTCAGTTACTTGAATAAAAAAATA
TCCTTTTCTGGA

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FIGURE 1129

MSESSSKSSQPLASKQEKDGTGTEKRGRGRPRKQPPKEPSEVPTPKRPRGRPKGSKNKGAATRKTTPGRKPRGR
PKKLEKEEEEEEGISQESSEEEQ

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FIGURE 1130

GCATTTCTTCCTTCTGCGTATGGGACAGGACCCTTTCTGGAATGGGGGTCTTATGACCTACAATCAAACAAGAAC
ATGGACTTCCCGTGCCCTCTGGCTAGGGCTGTTGCTGCCTTTGGTAGCTGCGCTGGATTTCAACTACCACCGCCAG
GAAGGGATGGAAGCGTTTTTGAAGACTGTTGCCCAAACCTACAGTTCTGTCACTCACTTACACAGTATTGGGAAA
TCTGTGAAAGGTAGAAACCTGTGGGTTCTTGTGTGGGGCGGTTTCCAAAGGAACACAGAATTGGGATTCCAGAG
TTCAAATACGTGGCAAATATGCATGGAGATGAGACTGTTGGGCGGGAGCTGCTGCTCCATCTGATTGACTATCTC
GTAACCAGTGATGGCAAAGACCCTGAAATCACAAATCTGATCAATAGTACCCGGATACACATCATGCCTTCCATG
AACCAGATGGATTTGAAGCCGTCAAAAAGCCTGACTGTTACTACAGCATCGGAAGGGAAAATTATAACCAGTAT
GACTTGAATCGAAATTTCCCGATGCTTTTGAATATAATAATGTCTCAAGGCAGCCTGAAACTGTGGCAGTCATG
AAGTGGCTGAAAACAGAGACGTTTGTCTCTCTGCAAACCTCCATGGTGGTGCCCTCGTGGCCAGTTACCCATTT
GATAATGGTGTTCAGCAACTGGGGCATTATACTCCCGAAGCTTAACGCCTGATGATGATGTTTTTCAATATCTT
GCACATACCTATGCTTCAAGAAATCCCAACATGAAGAAAGGAGACGAGTGTA AAAACAAAATGAACTTTCCTAAT
GGTGTACAAATGGATACTCTTGGTATCCACTCCAAGGTGGAATGCAAGATTACAACCTACATCTGGGCCCAGTGT
TTTGAAATTACGTTGGAGCTGTCATGCTGTAAATATCCTCGTGAGGAGAAGCTTCCATCCTTTTGAATAATAAC
AAAGCCTCATTAATTGAATATATAAAGCAGGTGCACCTAGGTGTAAAGGGTCAAGTTTTTGATCAGAATGGAAAT
CCATTACCCAATGTAATTGTGGAAGTCCAAGACAGAAAACATATCTGCCCTATAGAACCAACAAATATGGAGAG
TATTATCTCCTTCTCTTGCCTGGGTCTTATATTATAAATGTTACAGTCCCTGGACATGATCCACACATCACAAAG
GTGATTATTCCGGAGAAATCCCAGAACTTCAGTGCTCTTAAAAAGGATATTCTACTTCCATTCCAAGGGCAATTG
GATTCTATCCAGTATCAAATCCTTCATGCCAATGATTCTCTATACAGAAATTTGCCAGACCACTCAGCTGCA
ACAAAGCCTAGTTTGTTCCTTATTTTTAGTGAGTCTTTTGCACATATTCTTCAAATTAAAGTAAATGTGAAACTCA
ACCCACATCACCACCTGGAATCAGGGATTGCTCACTCCAGGTTACTGCAACCCTAACTCACTCTAGTGGGACCTT
GACTGGAGAACTCCACGATCTTCTGAAGAAGAGAAATGGATGTTTCCAAATTCACAATAAGCAATATGTGGT
GATAATGAAAAGAAATGATTGAGTCTTGACGGTGAATGGAAGACACTTACCTAACAAGTACTGCTCATTTACACTC
AAATTAATCTTGAAGTAGTCTTAAAATGTGTAAGAAGTTAAAACTTGAGAAGCAAAAAATGCCTGAAAAAGAAG
ATCATTTTGTATACAGAGAACCGGATGAATATAAGCAATGAAGATGAACATTTATTGATCTTCTACATACAAGAC
TTCACCATAAGGCCAGGAGCAGTGCTCACGCCTTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGCGGATCACC
TTGAGGTCAGGAGTTCAAGACCAGCCTGACCAACATGGTGAAAACCTGTCTCTACTAAATATTAGCGGGGTGTGG
TGGCGGGCACCTGTAGTCGCAGCCTTTTGGGAGGCTGAGACAGGAGAATCGCTTGAACCCTAGAGGCGGAGTTTG
CAGTGAGCCGAGATAGTGCCATTGTACTCCAGCTTGGGCAACAGAGTAAGACTCTGTCTC

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FIGURE 1131

MDFFCLWLGLLLPLVAALDFNYHRQEGMEAFKTV AQNYSSVTHLSIGKSVKGRNLWVLVVGRFPKEHRIGIPE
FKYVANMHGDETVGRELLHLIDYLVTS DGKDPEITNLINSTR IHIMPSMNP DGFEAVKKPDCYYSIGRENNQY
DLNRNFPDAFEYNNVSRQPETVAVMKWLKTET FVLSANLHGGALVASYPFDNGVQATGALYSRSLTPDDDDVFQYL
AHTYASRNP NMKKGDECKNKMNF PNGVTNGYSWYPLQGGMQDYN IWAQCFEITL ELSCCKYPREEKLPSFWNNN
KASLIEYIKQVHLGVKGQVFDQNGNPLPNVIVEVQDRKHICPYRTNKYGEYLLLLPGSYI INVTVPGHDPHITK
VI IPEKSQNF SALKKDILLPFQGGQLDSIPVSNPSCPMIPLYRNLPDHS AATKPSLFLFLVSL LHIFFK

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FIGURE 1132

GCTGCCCCCTGAACCCAGAACCAACCAGCTGGATCAGTTCTCACAGGAGCTACAGGCCGGAGACTGGGAAACATGG
TTCCAAAACCTGTTCACTTCCCAAATTTGTCTGCTTCTTCTGTTGGGGCTTCTGGCTGTGGAGGGCTCACTCCATG
TCAAACCTCCACAGTTTACCTGGGCTCAATGGTTTGAAACCCAGCACATCAATATGACCTCCCAGCAATGCACCA
ATGCAATGCAGGTCAATTAACAATTATCAACGGCGATGCAAAAACCAAAATACTTTTCCTTCTTACAACTTTTGCTA
ACGTAGTTAATGTTTGTGGTAACCCAAATATGACCTGTCCTAGTAACAAAACCTCGCAAAAATTGTCACCACAGTG
GAAGCCAGGTGCCTTTAATCCACTGTAACTCACAACCTCCAAGTCCACAGAATATTTCAAACCTGCAGGTATGCGC
AGACACCAGCAAAACATGTTCTATATAGTTGCATGTGACAACAGAGATCAACGACGAGACCCTCCACAGTATCCGG
TGGTTCCAGTTCACCTGGATAGAATCATCTTAAGCTCCTGTATCAGCACTCCTCATCATCACTCATCTGCCAAGCT
CCTCAATCATAGCCAAGATCCCATCTCTCCATATACTTTGGGTATCAGCATCTGTCCTCATCAGTCTCCATACCC
CTTCAGCTTTCTGAGCTGAAGTGCCTTGTGAACCTGCAATAAACTGCTTTGCAAATTC

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FIGURE 1133

MVPKLFTSQICLLLLLGLLAVEGSLHVKPPQFTWAQWFETQHINMTSQQCTNAMQVINNYQRRCKNQNTFLLTTF
ANVVNVCGNPNMTCPSNKTRKNCHHSGSQVPLIHCNLTTPSPQNISNCRYAQT PANMFYIVACDNRDQRRDPPQY
PVVEVHLDRII

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FIGURE 1134

CATGGATTTCGACATTGCTGGACCTGCCACAGGCTGGGCTCTTGCTAGAAATGACTTGCTAGCTAGACATCAT
GGTTCAGGATCTGAGTCAGAGGTTTAAACATTTATAAGCTTTTTTCTTATGAAAAATTGGCACTAATTATAATGT
CTAACTGTCAGAGTTGTTGCAGGCTTTACAGGAGACGCGGGCTGTGAAGATGCTTTGTAAATTGTGAAGCGTTAT
TAAAGAACACATCTTTTTTTTTAGGAAACCACGGTGCAAATTTAATTGCCGGGGAAGATAACGGGCCTTGGTGCC
CTCCAAGCGTCAGCTGAGTTTCCAAGAAGCCGGGCAGCGGGCGCCCGCGGGTTCGTCTCTGGCTCCTCCTCCGCC
ACAGCAGCCGGGGGCCCCGGGTCGGAGGCGGCGGGGGCCGAGCGCCCGGCCTCGCAAGCCCACGGCCCGCTGGGGG
TGCCGTCGCCGCGCCGGGGCGGAGCAGGCCCGGCAGCCAGTTCCTCATTCTATCAGCGGTACAAGGGGCTGGTG
GCGCCACAGGCGCTGGGACCGCGGGCGGACAAGGATGGGTCCGCGCGGCGCGGCGAGCTTGCCCCGAGGCCCCGG
ACCTCGGGCGGCTGCTCCTCCCCGTCGTCTCCTCCCGCTGCTGCTGCTGCTGTTGTTGGCGCCGCGGGGCTCGGGCGC
CGGGGCCAGCCGGCCGCCCCACCTGGTCTTCTTGCTGGCAGACGACCTAGGCTGGAACGACGTCGGCTTCCACGG
CTCCCGCATCCGCACGCCGCACCTGGACGCGCTGGCGGCCGGCGGGTGTCTCTGGACAATACTACTACACGCAGCC
GCTGTGCACGCCGTCGCGGAGCCAGCTGCTCACTGGCCGCTACCAGATCCGTACAGGTTTACAGCACCAAATAAT
CTGGCCCTGTGACCCAGCTGTGTTCTCTGGATGAAAACTCCTGCCCCAGCTCCTAAAAGAAGCAGGTTATAC
TACCCATATGGTCGGAATAATGGCACCTGGGAATGTACCGGAAAGAATGCCTTCCAACCCGCCGAGGATTTGATAC
CTACTTTGGATATCTCCTGGGTAGTGAAGATTATTATCCCATGAACGCTGTACATTAATTGACGCTCTGAATGT
CACACGATGTGCTCTTGATTTTCGAGATGGCGAAGAAGTTGCAACAGGATATAAAAATATGTATTCAACAAACAT
ATTACCAAAGGGCTATAGCCCTCATAACTAACCATCCACCAGAGAAGCCTCTGTTTCTCTACCTTGCTCTCCA
GTCTGTGCATGAGCCCTTCAGGTCCCTGAGGAATACTTGAAGCCATATGACTTTATCCAAGACAAGAACAGGCA
TCACTATGCAGGAATGGTGTCCCTTATGGATGAAGCAGTAGGAAATGTCAGTGCAGCTTTAAAAGCAGTGGGCT
CTGGAACAACACGGTGTTTCATCTTTCTACAGATAACGGAGGGCAGACTTTGGCAGGGGGTAATAACTGGCCCCCT
TCGAGGAAGAAAATGGAGCCTGTGGGAAGGAGGCGTCCGAGGGGTGGGCTTTGTGGCAAGCCCCCTTGCTGAAGCA
GAAGGGCGTGAAGAACCAGGAGCTCATCCACATCTCTGACTGGCTGCCAACACTCGTGAAGCTGGCCAGGGGACA
CACCAATGGCACAAAGCCTCTGGATGGCTTCGACATGTGGAATAACATCAGTGAAGGAAGCCCATCCCCAGAAT
TGAGCTGCTGCATAATATTGACCCGAACCTTCGTGGACTCTTACCCTGTGCCAGGAACAGCATGGCTCCAGCAAA
GGATGACTCTTCTCTTCCAGAATATTACGCCCTTTAACACATCTGTCCATGCTGCAATTAGACATGGAAATTGGAA
ACTCCTCACGGGCTACCCAGGCTGTGGTTACTGGTTCCCTCCACCCTCTCAATACAATGTTTCTGAGATACCCTC
ATCAGACCCACCAACCAAGACCCTCTGGCTCTTTGATATTGATCGGGACCCTGAAGAAAGACATGACCTGTCCAG
AGAATATCCTCACATCGTCACAAAGCTCCTGTCCCGCCTACAGTTCTACCATAAACACTCAGTCCCCGTGTACTT
CCCTGCACAGGACCCCCGCTGTGATCCCAAGGCCACTGGGGTGTGGGGCCCTTGATGTAGGATTTAGGGAGGC
TAGAAAACCTTTCAATTGGAAGTTGGACCTCAGGCCTTTTCTCACGACTCTTGTCTCATTTGTTATCCCAACCTG
GGTTCACTTGCCCTTCTCTTGCTCTTAAACCACACCGAGGTGTCTAATTTCAACCCCTAATGCATTTAAGAAGC
TGATAAAATCTGCAACACTCCTGCTGTTGGCTGGAGCATGTGTCTAGAGGTGGGGGTGGCTGGGTTTATCCCCCT
TTCCTAAGCCTTGGGACAGCTGGGAACCTTAACCTGAAATAGGAAGTTCTCACTGAATCCTGGAGGCTGGAACAGC
TGGCTCTTTTAGACTCACAAGTCAGACGTTTCGATTCCCTCTGCCAATAGCCAGTTTTATTGGAGTGAATCACAT
TTCTTACGCAAATGAAGGGAGCAGACAGTGATTAATGGTTCTGTTGGCAAGGCTTCTCCCTGTCCGTGAAGGATC
ATGTTTACGGCACTCCAAGTGAACCACCCCTCTTGGTTACCCCTTACTCACTTATCTCATCACAGAGCATAAGGC
CCATTTTGTGTTTCAAGTCAACAGCAAAATGCCTGCACCATGACTGTGGCTTTTAAATAAAGAAATGTGTTTTT
ATCG

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FIGURE 1135

MGPRGAASLPRGPGPRRLLPVVLPLLLLLLLAPPGSGAGASRPHLVFLLADDLGWNDVGFHGSRI RTPHLDAL
AAGGVLLDNYYTQPLCTPSRSQLLTG RYQIRTGLQHQIIWPCQPSCVPLDEKLLPQLLKEAGYTTHMVGKWHLGM
YRKECLPTRRGFDTYFGYLLGSEDYYSHERCTLIDALNVTRCALDFRDGEEVATGYKNMYSTNIFTKRAIALITN
HPPEKPLFLYLALQSVHEPLQVPEEYLKPYDFIQDKNRHHYAGMVSLMDEAVGNVTAALKSSGLWNNTVFIFSTD
NGGQTLAGGNNWPLRGRKWSLWEGGV RGVGFVASPLLKQKGVKNRELIHISDWLPTLVKLARGHTNGTKPLDGFD
MWKTISEGSPSPRIELLHNIDPNFVDSSPCPRNSMAPAKDDSSLPEYSAFN TSVHAAIRHGNWKLLTGYPGCGYW
FPPPSQYNVSEIPSSDPPTKTLWLFDIDRDPEERHDL SREYPHIVTKLLSRLQFYHKHSVPVYFPAQDPRCDPKA
TGVWGPWM

1279/2825
FIGURE 1136

GCAGGCCTTGCCCGGACCAGCCCCCTCCTCCACTCTCCTCTCCCCTGTGAGCTCCACCTGCCCCAGTTCTCCTGGC
TTTAACCCCTCCTTGGCCAAGGCCAGGGTTGCCTGCGGGAGCCAGGCGTCCGCTCTCCACACCTTTCACAGATCC
TACCCAGGCCACCACCCCGAACCCCTCCGACCCTGCGTTCCATCCCACCATCAACCTCCACGTGAATCTGCACCT
CTGCCCCAGCCCCAGCCCTCAGAGCAACCTCAGCCCAGCCCAGCCCAGCTCCAGCTCCAGCTCCAGCCCCGGGCC
CATCATGGCCAAGGACTTTCAAGATATCCAGCAGCTGAGCTCGGAGGAAAATGACCATCCTTTCCATCAAGGTGA
GGGGCCAGGCACTCGCAGGCTGAATCCCAGGAGAGGAAAATCCATTTTTGAAAGGGCCACCTCCTGCCCAGCCCCCT
GGCACAGCGTCTCTGCTCCATGGTCTGCTTCAGTCTGCTTGCCCTGAGCTTCAACATCCTGCTGCTGGTGGTCAT
CTGTGTGACTGGGTCCCAAAGTGAGGGTCACAGAGGTGCACAGCTGCAAGCCGAGCTGCGGAGCCTGAAGGAAGC
TTTCAGCAACTTCTCCTCGAGCACCTTGACGGAGGTCCAGGCAATCAGCACCCACGGAGGCAGCGTGGGTGACAA
GATCACATCCCTAGGAGCCAAGCTGGAGAAACAGCAGCAGGACCTGAAAGCAGATCACGATGCCCTGCTCTTCCA
TCTGAAGCACTTCCCCGTGGACCTGCGCTTCGTGGCCTGCCAGATGGAGCTCCTCCACAGCAACGGCTCCCAAAG
GACCTGCTGCCCCGTCAACTGGGTGGAGCACCAAGGCAGCTGCTACTGGTTCTCTCACTCCGGAAGGCCTGGGC
TGAGGCGGAGAAGTACTGCCAGCTGGAGAACGCACACCTGGTGGTCATCAACTCCTGGGAGGAGCAGAAATTCAT
TGTACAACACACGAACCCCTTCAATACCTGGATAGGTCTCACGGACAGTGATGGCTCTTGGAATGGGTGGATGG
CACAGACTATAGGCACAACCTACAAGAACTGGGCTGTCACTCAGCCAGATAATTGGCACGGGCACGAGCTGGGTGG
AAGTGAAGACTGTGTTGAAGTCCAGCCGGATGGCCGCTGGAACGATGACTTCTGCCTGCAGGTGTACCGCTGGGT
GTGTGAGAAAAGGCGGAATGCCACCGGCGAGGTGGCCTGACCCAGCACACCTCTGGCTAACCCATACCCCACAC
CTGCCCAGCTCTGGCTTCTCTGTTGAGGATTTTGGAGAAAGGAAGAAACACTGAGACAGGGGTATGGGGAAGAGC
TGAGCAAAGAGAGAAAGGAGGTAGTTTAAGAGTCCCTGACCCTGGAGGACTGAGATCCACCTCCTTCTGTAAAT
CATTGTAATTATTATAATCGTCAGCCTCTTCAATGGCGTAGGAAAGAAGAAACAAATGCTTGAATCTC

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FIGURE 1137

MAKDFQDIQQLSSEENDHPFHQGPPPAQPLAQRLCSMVCFSLALSFNILLVVICVTGSQSEGHGAQLQAELR
SLKEAFSNFSSSTLTEVQAISTHGGSVGDKITSLGAKLEKQQQDLKADHDALLFHLKHFPVDLRVACQMELLHS
NGSQRTCCPVNWVEHQGSCYWFSHSGKAWAEAEKYCLENAPLVVINSWEEQKFIVQHTNPFNTWIGLTDSDGSW
KWVDGTDYRHNYKNWAVTQPDNWHGHELGGSEDCVEVQPDGRWNDDFCLQVYRWVCEKRRNATGEVA

1281/2825
FIGURE 1138

GAGAAATTGGAGAAGATAAACTGGACACTGGGGAGACCACAACCTTC**ATG**CTGCGTGGGATCTCCCAGCTACCTG
CAGTGGCCACCATGTCTTGGGTCTTGCTGCCTGTACTTTGGCTCATTGTTCAAACCTCAAGCAATAGCCATAAAGC
AAACACCTGAATTAACGCTCCATGAAATAGTTTGTCTAAAAAACTTCACATTTTACACAAAAGAGAGATCAAGA
ACAACCAGACAGAAAAAGCATGGCAAAGAGGAAAGGTATGAACCTGAAGTTCAATATCAGATGATCTTAAATGGAG
AAGAAATCATTCTCTCCCTACAAAAACCAAGCACCTCCTGGGGCCAGACTACACTGAAACATTGTACTCACCCA
GAGGAGAGGAAATTACCACGAAACCTGAGAACATGGAACACTGTTACTATAAAGGAAACATCCTAAATGAAAAGA
ATTCTGTTGCCAGCATCAGTACTTGTGACGGGTTGAGAGGATACTTCACACATCATCACCAAAGATACCAGATAA
AACCTCTGAAAAGCACAGACGAGAAAGAACATGCCGTCTTTACATCTAACCAGGAGGAACAAGACCCAGCTAACC
ACACATGTGGTGTGAAGAGCACTGACGGGAAACAAGGCCCAATTGGAATCTCTAGATCACTCAAAAGCCCAGAGA
AAGAAGACTTTCTTCGGGCACAGAAATACATTGATCTCTATTTGGTGCTGGATAATGCCTTTTATAAGAACTATA
ATGAGAATCTAACTCTGATAAGAAGCTTTGTGTTTGATGTGATGAACCTACTCAATGTGATATATAACACCATAG
ATGTTCAAGTGGCCTTGGTAGGTATGGAATCTGGTCTGATGGGGATAAGATAAAGGTGGTGGCCAGCGCAAGCA
CCACGTTTGACAACCTCCTGAGATGGCACAGTTCTAACCTGGGGAAAAAGATCCACGACCATGCTCAGCTTCTCA
GCGGGATTAGCTTCAACAATCGACGTGTGGGACTGGCAGCTTCAAATTCCTTGTGTTCCCATCTTCGGTTGCTG
TTATTGAGGCTAAAAAAAAGAATAATGTGGCTCTTGTAGGAGTGATGTCACATGAGCTGGGCCATGTCCTTGGA
TGCCTGATGTTCCATTCAACACCAAGTGTCCCTCTGGCAGTTGTGTGATGAATCAGTATCTGAGTTCAAATTC
CAAAGGATTTAGTACATCTTGCCGTGCACATTTTGAAAGATAACCTTTTATCTCAGAAACCAAAGTGCCTGCTGC
AAGCACCTATTCCTACAAATATAATGACAACACCAGTGTGTGGGAACCACTTCTAGAAGTGGGAGAAGACTGTG
ATTGTGGCTCTCCTAAGGAGTGTACCAATCTCTGCTGTGAAGCCCTAACGTGTAACTGAAGCCTGGAAGTGAAT
GCGGAGGAGATGCTCCAAACCATAACCACAGAG**TGA**ATCCAAAAGTCTGCTTCACTGAGATGCTACCTTGCCAGGA
CAAGAACCAAGAACTCTAACTGTCCAGGAATCTTGTGAATTTTACCCATAATGGTCTTTCACTTGTCAATTCTA
CTTTCTATATTGTTATCAGTCCAGGAAACAGGTAAACAGATGTAATTAGAGACATTGGCTCTTTGTTTAGGCCTA
ATCTTTCTTTTACTTTTTTTTTTCTTTTTTCTTTTTTTTAAAGATCATGAATTTGTGACTTAGTTCTGCCCTT
TGGAGAACAAAAAGAAAGCAGTCTTCCATCAAATCACCTTAAAAATGCACGGCTAAACTATTAGAGTTAACTCC
AGAATTGTTAAATTACAAGTACTATGCTTTAATGCTTCTTTTCTTACTAGTATGGCCTATAAAAAAATAATA
CCACTTGATGGGTGAAGGCTTTGGCAATAGAAAGAAGAATAGAATTCAGGTTTTATGTTATTCCTCTGTGTTAC
TTCGCCCTTGCTCTTGAAAGTGCAGTATTTTTCTACATCATGTCGAGAATGATTCAATGTAAATATTTTTCATTTT
ATCATGTATATCCTATACACACATCTCCTTCATCATCATATATGAAGTTTATTTTGAGAAGTCTACATTGCTTAC
ATTTTAATTGAGCCAGCAAAGAAGGCTTAATGATTTATTGAACCATAATGTCAATAAAAACACAACTTTTGAGGC

1282/2825
FIGURE 1139

MLRGISQLPAVATMSWVLLPVLWLIVQTQAIKQTPELTLHEIVCPKKLHILHKREIKNNQTEKHGKEERYEPE
VQYQMILNGEEIILSLQTKHLLGPDYTETLYSPRGEEITTKPENMEHCYYKGNILNEKNSVASISTCDGLRGYF
THHHQRYQIKPLKSTDEKEHAVFTSNQEEQDPANHTCGVKSTDGKQGPIRISRLKSPEKEDFLRAQKYIDLVLV
LDNAFYKNYNENLTLIRSFVFDVMNLLNVIYNTIDVQVALVGMEIWSGDGDIKVVPSASTTFDNFLRWSSNLGK
KIHDHAQLLSGISFNRRRVGLAASNLCSPSSVAVIEAKKKNNVALVGVMSELGHVVGMPDVPFNTKCPSGSCV
MNQYLSSKFPKDFSTSCRAHFERYLLSQKPKCLLQAPIPTNIMTTPVCGNHLLEVGEDCDCGSPKECTNLCCEAL
TCKLKPGTDCGGDAPNHTTE

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FIGURE 1140A

CTTTTTGTAGGGAGAAGGGCAGGATGTTTTTAACTGAATGTGACCTCAGGGGAATACTAGAGAAAATAATAAAAT
TTCTGAATGGGGCAGCGTGGAGAAATCCTAAGAGAAATAGCATAAGAGCATTTTGGAACACATCCAGGAAAAGAT
AACTTTTCGACACACCTGTAGACGTTCCGCCAGGTAAAGGAGTGATGGAACTCTCCAGTTCAGATCCAGTAGCTTT
TAGGGAAGGAACCTACAGTTGCTGACTTAAGTTGAAGAAGCATCTATTTAATGTCTGGTCAAATCCTACAAGAAAC
ACAGAAATCTATGATTAAAAAGCTGAGCACTTTGATATACTGCAAAGGGTAGAGAAAGGCAGGACGGTAGAAATTT
TCTGCAAGAAAGAATGAATTTTCAAGATTATCACTAAATAAGACAAAGTCATTTATTTAGTCCCCCTGACACAGC
AGGGCAAACCTGAGTTGACATACAAGTTACCTGGAGAAAAAGAGAGCAATTCCAGGACTTCCTCTTCAGCCTAAAA
GAAGGTACCAGATCTGTGCACTGGGGCGATGTGGAAGAGACCTGCTTATTGCCCTGATGTAAGCTCCAGTAAGA
AAAGACGTCAAGTACAAGTACTAGGAAATCACTTTATACATCTGTTTATAGGAATGACCTCAGGACTTTGTGTTT
ATGTTATAGATGATGATGCAGAGGCTGAAGATAAAACGCTGCGTACTCGCTCTAAAGGAACCGAGGTGCCAATGGAT
TCACTAATCCAGGAGCTCAGTGTGCTTATGATTGCTCCATGGCAAAGAAGAGAACAGCTGAAGATCAGGCTTTG
GGGTTCCAGTCAACAAAAGGAAATCCCTGCTAATGAAGCCCCGACACTACAGCCCAAAGCAGACTGCCAAGAA
GACCGCAGTGACAGGACAGAGGACGATGGCCCCCTTGGAAACACATGGTCACTCTACCGCAGAGGAAATCATGATA
AAACCTATGGATGAAAGTCTTCTTTCAACTGCACAAGAAAACCTCCAGTAGGAAGGAAGACAGATACTCTTGTTAT
CAAGAGCTCATGGTCAAGTCTTTAATGCACCTGGGGAAATTTGAAAAAATGTATCTGTTTCAGACTGTAAGTGAA
AATTTAAATGACAGTGGCATCCAGTCTTTAAAGCAGAGAGCGATGAAGCAGACGAGTGCTTTCTGATTCAATCT
GATGATGGAAGAGACAAGATTGATGATTCTCAGCCACCCTTCTGCTCCTCTGATGACAATGAAAGTAACTCTGAA
AGTGACAGAAAATGGCTGGGACAGTGGCTCCAACCTTCTCAGAAGAAACCAAACCACCTAGAGTCCCAAAGTATGTT
TTAACAGATCATAAAAAAGACCTATTGGAAGTTCTGAAATAAAAACTGAAGGTGACAAATTTATCCCTTGTTGAG
AACAGGTGTGATTCTGAAACAGAAAGGAAAGACCCGCAGAATGCTCTCGCAGAACCCCTGGATGGCAATGCCAG
CCCTCATTCCCTGACGTTGAGGAGGAAGATAGCGAGAGCCTGGCAGTAATGACGGAAGAGGGTAGTGACCTGGAA
AAGGCCAAGGGGAATTTAAGTTTGTGAGCAGGCAATTGCTCTGCAGGCTGAGCGAGGTTGTGTTTTCCATAAC
ACCTACAAAGAGCTGGATAGGTTCTGCTGGAGCACCTAGCAGGGGAAAGGAGGCAAACCAAAGTTATCGACATG
GGTGGAAGACAAATCTTTAACAATAAACATTACCAAGGCCTGAAAAGAGGGGAGACCAAGTGCCCGATCCCTGGA
TGTGATGGCACGGGACACGTGACAGGGCTCTACCCGCACCACCGCAGCCTTTCGGGGTGCCCCACAAAGTGCGG
GTTCCCTGGAATTTCTTGCCATGCATGAAAATGTGCTCAAGTGTCCCACGCCGGGATGCACAGGAAGGGGTCAT
GTGAACAGCAACCGCAACACCCACAGGAGTCTTTCTGGTTGTCCAATTGCTGCAGCTGAAAAATTGGCAATGTCC
CAGGATAAAAAATCAGCTTGATTCTCCCCAACTGGGCAGTGTCTGACCAGGCCACAGGACAAGTTTGGTGAAG
CAAATTGAATTCAATTTCCCGTCACAAGCCATCACCTCTCCAGAGCCACAGTGTCAAAAGAACAAGAGAAGTTT
GGAAAAGTACCATTTGATTATGCCAGTTTTGATGCCCAAGTTTTTCGGTAAACGCCCTCTCATACAAACAGTGCAA
GGACGAAAAACACCACCATTTCTGAATCAAAGCATTTTCCAAATCCAGTGAAATTTCTTAATCGACTGCCTAGT
GCAGGCGCCACACCCAGAGCCCTGGCCGTGCCAGTCTTATAGCTACGGTCAATGTAGTGAAGACACCCACATA
GCAGCAGCTGCTGCCATCCTGAACCTTTCCACCCGCTGCAGGGAAGCCACAGACATCCTCTCCAACAAGCCACAG
AGTCTGCATGCCAAGGGAGCCGAAATAGAAGTGGATGAAAATGGCACATTGGACTTAAGCATGAAAAAATCGA
ATCCTGGACAAGTCTGCACCCCTAATCTCTTAACACTTCTATTCCAACCTCCTTCTTCCCCATTCAAAACA
AGCAGCATTCTGGTCAATGCAGCATTCTATCAGGCTCTTTGTGACCAAGAGGGCTGGGACACTCCTATCAACTAT
AGCAAACTCACGGGAAGACAGAGGAGGAGAAAGAGAAAGACCCAGTGAGCTCTCTAGAAAATTTAGAGGAAAAA
AAGTTTCTTGAGAGGCCCTCTATACCAAGCCCTAAACCCAAGCTTCATGCAAGAGATCTCAAAAAGGAACATAATC
ACCTGTCCAACACCAGGATGTGATGGAAGTGGCCACGTGACAGGAACTATGCATCTCATCGCAGTGTCTTCTGGA
TGTCTTTTAGCAGATAAGACTCTAAATCCCTCATGGCTGCCAACTCTCAGGAGCTTAAGTGTCCAACCCAGGC
TGCGATGGCTCGGGGCACGTGACTGGAACTATGCTTCCACAGAAGCTTGTCCGGATGCCCTCGTGCAAGGAAA
GGTGGTGTCAAAATGACCCCTACCAAGGAAGAAAAAGAACCCCTGAACTGAAATGTCTGTGATAGGGTGTGAT
GGCCAAGGTCACATATCAGGTAAATACACATCACACCCGCACAGCTTCTGGCTGTCTCTGGCTGCCAAGAGACAG
AAGGAGAAATCCTCTCAATGGAGCCTCCCTCTCTCTGGAAAACCTGAACAAACAAGAGCTACCACATTGTCCCTTGCCA
GGCTGCAATGGGCTGGGCCATGTAAATAATGTTTTTGTACCCACCGAAGCTTATCTGGATGTCTCTCAATGCA
CAAGTTATCAAAAAGGGCAAGGTTTTCTGAAGAACTCATGACCATCAAGCTCAAAGCAACTGGGGGAATAGAGAGT
GATGAAGAAATTAGGCATTTGGATGAAGAAATAAAGGAACTGAATGAATCCAACCTTAAAATTGAAGCAGATATG
ATGAAACTTCAGACCCAGATCACATCTATGGAGAGCAACTTAAAGACGATAGAGGAGGAGAACAACTCATAGAA

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FIGURE 1140B

CAGAACAAATGAAAGTCTGCTGAAAGAGCTGGCAGGTCTAAGCCAAGCTCTCATTTCAGCCTTGCTGACATCCAG
CTTCCACAGATGGGACCTATCAGTGAGCAGAAATTTTGAAGCATATGTAAATACACTCACAGATATGTACAGCAAT
CTGGAACGGGACTATTCCCCGGAATGCAAAGCTCTACTGGAAGTATCAAACAGGCAGTGAAGGGTATCCATGTG
TAGGATCACAGCGCTGCCGGGCAACAGAAAGTTACCAACAGCAGTAAACTCCAGATGGATCTGTTAGAGGTTTCATG
TACTGCTAAGGCGTGGAGGTTGCCGTACTGCATTTACAATTTGCAACATTGCACTAATTTTATTTTCCCCAGCTG
ATATAAAAAGGAAAGAAAACTATGATAGACTTCTTGGATTAAAGCAATGCAGTCAATTATTAGATCTTATTTA
TTTTCATATGTTTTCTTTTATTTCTTCATTGTACTCTTCTTTTGTAAAGTATATGTAAAAATAATGTGACATTT
TTATAATTTATTTATTACTAATCAAAGAGTTTTTTATCTTTTAACTGCATTTTGAAGTCTGCCGTATTTTTACAA
GTGTGTTTTATTAATTTATTTTCCAATAGGATTTAAATAGAAATGCTATTCTCAAGTCATCTTTCTTGCTGGGTTT
TAATGAGGAAACAGGAAAGGGTGAAGGAAATCCTTGTCTAAGGACTGCACTATAGTTGAGTTTGATTTTTATTGC
ACACTTCTTCCCCACCTTTCACTGATTTTTGTATTTATAAATGAATTTGCGGTAAGGTGAGCTGCACGGAAGGA
ATAAGAAGACAAATGGCGCCCACTAGTGGGGAATCCGCACTCACAAAAGCACAGGATGCTGGAAAACAGCCTGCT
CAGAATTTGTTAGCAATAATTAATATAGCAATCAGCAAAGTATTCGACTTGGCTGGACGGTTTTCTGTTAATATG
AATTATTTATTTGAAATGTTTTAAAGAAACATAAGCCTTTTTAGTGATGCAGATTTGTCTGTTTGTTTTTCAAGT
CATATCAGATCGTTGGCAACTCGTATCCCAAGATGAAAAATAAGACTTGGTGTGACCAGCCAGGCTTTCTGCCA
TATGTTGGTACAATATACAAGTGACAATATTGGTGTAGATTTGTACTTAGCAAATACAAACACATCCAAATGAAA
AATTTTGTAGATACCATATCCCCTGAAATAGCATTTATCTTACTGGGTTGACTGGAAAGGAATGGAAAATATAGT
AACACATGAAAAATGCTACTCCAATCTGAATGATTACTTCAAACACTGGCACCTTGGGTCTCACCACCATAGG
AAACAAGACAACATTCAATTTGATAGAAATCTTGCCACAAAACCTTCAAATGCTACAAAATATACACACACACTCA
CACACACAGGCATACTCACACACAGACACACACACACACACACAGACTCATCCACACTTCAAATTGAGCCC
ACAATCTTGAATTTCTGAACGGATCAGAGTTTCATAGTTTCTATAGTAAAGGCAATGTCTATTTTCAGGGATTGTA
AAGTAGTTAAGCATTGTTTCAAAAGTTTTTTTTATATTTATTTTTTTTAAAGGAAAAGGTATAGACAACCAGCTAAA
CTGCCTTTTTTGGTGTGCACACACATTTATGTGCAGACGTGCCTCTGTGTAAATGTACACATGAACCTTCATGTGG
GCTTAATTTTTCTGTGCTATAAACAAAAGTGTTTTATTTTTTTTAACTCATGGATATTTAGATGGAAAGTGATGG
CATTCACAGGCTTGATGTATTCCACTGTTATTACTGTTACCTGCACAAATGAAAAACAATACTCAACAGTAATTC
CACTCCCATGAAACTTTGGTCATTGTTATGCATTAAGTGGGGCTTATCTTTGGTTTGGAGTTCATTTGAACTCTT
GAACCTTAGTTTGTAGTGAAGATGAACGTCTGTTCTTAGGTAGAAACGGTGTTTATTTAAAAATCAGTTTTAAAAA
ATGAGCTACCATATGTGCTGTCTATTATAAATGGGACACCAAACAAAATTTTCTATTACAGTTGTGTACTTGCAA
ACATTTTGTCTATACAGTACTTCATAGATGCATACAAATGAGCTCACTTATTACAAAGACAAACGTTTAAATTTGCT
AAATATTTTAAACAAGTTTGTATATAITTTATTTAATTTAAAAAGAAATCTCTTACCAACCTACATATTTATTACT
ATAATTTGCTATGACTTCAGGTTAATTTATTTGTGTTTGCATAGTTTGTGAGCAGGATGTTTTGTGAAGTATGTTTG
TATTTATTTGCCTACTTTGTACTTGATGTGTTTTGTAATGTGCACTGAATTTGTTTTCTTTTCACTATGTTAAT
GATCAATACTGTAAATTGGGTCTTTTGTAAACAAAAGGCAATGATGTATGCATTTTTTTTTTAAATTTGAGGTAGTT
TGTTTGTATACTGTTTCTCCAAACACTTAATATTTCTTACATCAAAGCAACAAAATTGTGTTTCAGTGCTGTACAT
TTGGTGTATGGTAGGAAATAAAAATTGATAACG

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FIGURE 1141

MDAEAEDKTLRTRSKGTEVPMDSLIQELSVAYDCSMAKKRTAEDQALGVPVNKRKSLLMKPRHYSPKADCQEDRS
DRTEDDGPLETHGHSTAEEIMIKPMDESLSTAQENSSRKEDRYSCYQELMVKSLMHLGKFEKNVSVQTVSENLN
DSGIQSLKAESDEADECFLIHSDDGDRDKIDDSQPPFCSSDDNESNSESAENGWDSGSNFSEETKPPRVPKYVLT
HKKDLLEVPEIKTEGDKFIPCENRCDSETERKDPQNALAEPLDGNAQPSFPDVEEEDSESLAVMTEEGSDLEKAK
GNLSLLEQAIALQAERGCVFHNTYKELDRFLLEHLAGEERRQTKVIDMGGRRQIFNNKHSPRPEKRETKCPIPGCDG
TGHVTGLYPHHRSLSGCPHKVRVPLEILAMHENVLKCPTPGCTGRGHVNSNRNTHRSLSGCPIAAA EKLAMSQDK
NQLDSPQTGQCPDQAHRTSLVKQIEFNFP SQAITSPRATVSKEQEKFGKVPFDYASFDAQVFGKRPLIQTVQGRK
TPFFPESKHFPNPVKFPNRLPSAGAHTQSPGRASSYSYGQCS EDTHIAAAAAILNLSTRCREATDILSNKPQSLH
AKGAEIEVDENGTLDSLMMKNRILDKSAPLTSSNTSIPTPSSSPFKTSSILVNAAFYQALCDQEGWDTPINYSKT
HGKTEEEKEKDPVSSLENLEKKFPGEASIPSPKPKLHARDLKKELITCPTPGCDGSGHVTGNYASHRSVSGCPL
ADKTLKSLMAANSQELKCPTPGCDGSGHVTGNYASHRSLSGCPRARKGGVKMTPTKEEKEDPELKCPVIGCDGQG
HISGKYTSHRTASGCPLAAKRQKENPLNGASLSWKLNKQELPHCPLPGCNGLGHVNNVVFVTHRSLSGCPLNAQVI
KKGKVSEELMTIKLKATGGIESDEEIRHLDEEIKELNESNLKIEADMMKLQTQITSMESNLKTIEEENKLIEQNN
ESLLKELAGLSQALISLADIQLPQMGP ISEQNFEAYVNTLTDMYSNLERDYSPECKALLESIKQAVKGIHV

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FIGURE 1142

GCACCTGCCTCTGGCACCTGGGGCAGCCGCGCCCGCGGAGTTTTCCGCCCGGGCGCTGACGGCTGCTGCGCCCGCGG
CTCCCCAGTGCCCCGAGTGCCCCGCGGGCCCCGCGAGCGGGAGTGGGACCCAGCCCCTAGGCAGAACCCAGGCGC
CGCGCCCGGGACGCCCCGCGGAGAGAGCCACTCCCCGCCACGTCCCATTTCGCCCCCTCGCGTCCGGAGTCCCCGTG
GCCAGATCTAACCATGAGCTACCCTGGCTATCCCCCGCCCCAGGTGGCTACCCACCAGCTGCACCAGGTGGTGG
TCCCTGGGGAGGTGCTGCCTACCCTCCTCCGCCAGCATGCCCCCATCGGGCTGGATAACGTGGCCACCTATGC
GGGGCAGTTCAACCAGGACTATCTCTCGGGAATGGCGGCCAACATGTCTGGGACATTTGGAGGAGCCAACATGCC
CAACCTGTACCCTGGGGCCCCCTGGGGCTGGCTACCCACCAGTGCCCCCTGGCGGCTTTGGGCAGCCCCCTCTGC
CCAGCAGCCTGTTTCTCCCTATGGGATGTATCCACCCCCAGGAGGAAACCCACCCCTCCAGGATGCCCTCATATCC
GCCATACCCAGGGGGCCCCCTGTGCCGGGCCAGCCCATGCCACCCCCGGACAGCAGCCCCCAGGGGCCTACCCTGG
GCAGCCACCAGTGACCTACCCTGGTCAGCCTCCAGTGCCACTCCCTGGGCAGCAGCAGCCAGTGCCGAGCTACCC
AGGATACCCGGGGTCTGGGACTGTCACCCCCGTGTGCCCCAACCCAGTTTGAAGCCGAGGCACCATCACTGA
TGCTCCCGGCTTTGACCCCTGCGAGATGCCGAGGTCTGCGGAAGGCCATGAAAGGCTTCGGGACGGATGAGCA
GGCCATCATTGACTGCCTGGGGAGTCGCTCCAACAAGCAGCGGCAGCAGATCCTACTTTCTTCAAGACGGCTTA
CGGCAAGGATTTGATCAAAGATCTGAAATCTGAACTGTGAGGAACTTTGAGAAGACAATCTTGGCTCTGATGAA
GACCCAGTCCTCTTTGACATTTATGAGATAAAGGAAGCCATCAAGGGGGTTGGCACTGATGAAGCCTGCCTGAT
TGAGATCCTCGCTTCCCGCAGCAATGAGCACATCCGAGAATTAACAGAGCCTACAAAGCAGAATTCAAAAAGAC
CCTGGAAGAGGCCATTGAAAGCGACACATCAGGGCACTTCCAGCGGCTCCTCATCTCTCTCTCAGGGAAACCG
TGATGAAAGCACAAACGTGGACATGTCACTCGCCAGAGAGATGCCAGGAGCTGTATGCGGCCGGGGAGAACCG
CCTGGGAACAGACGAGTCCAAGTTCAATGCGGTTCTGTGCTCCCGGAGCCGGGGCCACCTGGTAGCAGTTTTCAA
TGAGTACCAGAGAATGACAGGCCGGGACATTGAGAAGAGCATCTGCCGGGAGATGTCCGGGGACCTGGAGGAGGG
CATGCTGGCCGTGGTGAAATGTCTCAAGAATACCCAGCCTTCTTTGCGGAGAGGCTCAACAAGGCCATGAGGGG
GGCAGGAACAAAGGACCGGACCCTGATTTCGATCATGGTGTCTCGCAGCGAGACCGACCTCCTGGACATCAGATC
AGAGTATAAGCGGATGTACGGCAAGTCGCTGTACCACGACATCTCGGGAGATACTTCAGGGGATTACCGGAAGAT
TCTGCTGAAGATCTGTGGTGGCAATGACTGAACAGTGACTGGTGGCTCACTTCTGCCCACCTGCCGGCAACACCA
GTGCCAGGAAAAGGCCAAAAGAATGTCTGTTTCTAACAAATCCACAAATAGCCCCGAGATTACCGTCCTAGAGC
TTAGGCCTGTCTTCCACCCCTCCTGACCCGTATAGTGTGCCACAGGACCTGGGTGCGTCTAGAACTCTCTCAGGA
TGCCTTTTCTACCCCATCCCTCAGCCTCTTGCTGCTAAAATAGATGTTTCATTTTTCTGACTCATGCAATCAT
TCCCCTTTGCTGTGGCTAAGACTTGGCTTCATTTCTGTCATGTAATTGTATATTTTTATTTGGAGGCATATTTTC
TTTTCTTACAGTCATTGCCAGACAGAGGCATACAAGTCTGTTTGTGCTGCATACACATTTCTGGTGAGGGCGACTGG
GTGGGTGAAGCACCGTGTCTCGCTGAGGAGAGAAAGGGAGGCGTGCCTGAGAAGGTAGCCTGTGCATCTGGTGA
GTGTGTCACGAGCTTTGTTACTGCCAACTCACTCCTTTTTAGAAAAACAAAAAAAAGGGCCAGAAAGTCATT
CCTTCCATCTTCTTGAGAAACCACGAGAACAAAGCCAGTTCCTGTGAGTACAGGGCTTCTTGTAATTTGTG
GTATGTGCCTTAAACCTGAATGTCTGTAGCCAAACTTGTTTCCACATTAAGAGTCAGCCAGCTCTGGAATGGTC
TGGAATGTCA

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FIGURE 1143

MSYPGYPPPPGGYPFAAPGGGPWGGAAYPPPPSMPPIGLDNVATYAGQFNQDYLSGMAANMSGTFGGANMPNLYP
GAPGAGYPPVPPGGFGQPPSAQQPVPPYGMYPPPGGNPPSRMPSYPPYPGAPVPGQPMPPPGQPPGAYPGQPPV
TYPGQPPVPLPGQQQPVPSPYPGYPGSGTVTPAVPPTQFGSRGTITDAPGFDPLRDAEVLRKAMKGFGTDEQAIID
CLGSRSNKQRQQILLSFKTAYGKDLIKDLKSELSGNFEKTILALMKTPVLFDIYEIKEAIKGVGTDEACLIEILA
SRSNEHIRELNRAYKAEFKKTLEEAIIRSDTSGHFORLLISLSQGNRDESTNVDMSLAQRDAQELYAAGENRLGTD
ESKFNAVLCSRSRAHLVAVFNEYQRMTGRDIEKSICREMSGDLEEGMLAVVKCLKNTPAFFAERLNKAMRGAGTK
DRTLIRIMVSRSETDLLDIRSEYKRMYGKSLYHDISGDTSGDYRKILLKICGGND

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FIGURE 1144

GCTGGTCGGAGGCTCGCAGTGCTGTCGGCGAGAAGCAGTCGGGTTTGGAGCGCTTGGGTCGCGTTGGTGCGCGGT
GGAACGCGCCCCAGGGACCCCAGTTCCCGCGAGCAGCTCCGCGCCGCGCCTGAGAGACTAAGCTGAAACTGCTGCT
CAGCTCCCAAGATGGTGCCACCCAAATTGCATGTGCTTTTCTGCCTCTGCGGCTGCCTGGCTGTGGTTTATCCTT
TTGACTGGCAATACATAAAATCCTGTTGCCCATATGAAATCATCAGCATGGGTCAACAAAATACAAGTACTGATGG
CTGCTGCAAGCTTTGGCCAAACTAAAATCCCCCGGGGAAATGGGCCTTATTCCGTTGGTTGTACAGACTTAATGT
TTGATCACACTAATAAGGGCACCTTCTTGCGTTTATATTATCCATCCCAAGATAATGATCGCCTTGACACCCTTT
GGATCCCAAATAAAGAATATTTTTGGGGTCTTAGCAAATTTCTTGGAACACAÇTGGCTTATGGGCAACATTTTGA
GGTTACTCTTTGGTTCAATGACAACTCCTGCAAAGTGAATTTCCCTCTGAGGCCTGGTGAAAAATATCCACTTG
TTGTTTTTTCTCATGGTCTTGGGGCAITCAGGACACTTTATTCTGCTATTGGCATTGACCTGGCATCTCATGGGT
TTATAGTTGCTGCTGTAGAACACAGAGATAGATCTGCATCTGCAACTTACTATTTCAAGGACCAATCTGCTGCAG
AAATAGGGGACAAGTCTTGGCTCTACCTTAGAACCTGAAACAAGAGGAGGAGACACATATACGAAATGAGCAGG
TACGGCAAAGAGCAAAAAGATGTTCCCAAGCTCTCAGTCTGATTCTTGACATTGATCATGGAAAGCCAGTGAAGA
ATGCATTAGATTTAAAGTTTGATATGGAACAAGTGAAGGACTCTATTGATAGGGAAAAAATAGCAGTAATTGGAC
ATTCTTTTGGTGGAGCAACGGTTATTGAGACTCTTAGTGAAGATCAGAGATTCAGATGTGGTATTGCCCTGGATG
CATGGATGTTTCCACTGGGTGATGAAGTATATTCCAGAATTCCTCAGCCCCCTTTTTTTATCAACTCTGAATATT
TCCAATATCCTGCTAATATCATAAAAATGAAAAATGCTACTCACCTGATAAAGAAAGAAAGATGATTACAATCA
GGGGTTCAGTCCACCAGAATTTTGCTGACTTCACTTTTGCAACTGGCAAAATAATTGGACACATGCTCAAATTAA
AGGGAGACATAGATTCAAATGTAGCTATTGATCTTAGCAACAAAGCTTCATTAGCATTCTTACAAAAGCATTTAG
GACTTCATAAAGATTTTGATCAGTGGGACTGCTTGATTGAAGGAGATGATGAGAATCTTATTCCAGGGACCAACA
TTAACACAACCAATCAACACATCATGTTACAGAAGTCTTCAGGAATAGAGAAATACAATTAGGATTAAAATAGGT
TTTTT

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FIGURE 1145

MVPEKLVHVFCLCGCLAVVYPFDWQYINPVAHMKSSAWVNKIQVLMAAASFQTKIPRGNGPYSVGCTDLMFDHT
NKGTFRLRYPSQDNDRLDTLWIPNKEYFWGLSKFLGTHWLMGNILRLLFGSMTPANWNSPLRPGEKYPLVVS
HGLGAFRTLYSAIGIDLASHGFIVA AVEHRDRSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQR
AKECSQALSLILDIDHGKPVKNALDLKFDMEQLKDSIDREKIAVIGHSGGATVIQTLSEDQRFRCGIALDAWMF
PLGDEVYSRIPQPLFFINSEYFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGD
DSNVAIDL SNKASLAFLQKHLGLHKDFDQWDCLEGGDENLIPGTNINTTNQHIMLQNSSGIEKYN

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FIGURE 1146

GAATTCCGGCACGAGGGAGTTTGACCAGAGATGCAAGGGGTGAAGGAGCGCTTCCTACCGTTAGGGAACCTCTGGGG
ACAGAGCGCCCCGGCCGCTGATGGCCGAGGCAGGGTGCGACCCAGGACCCAGGACGGCGTCGGGAACCATACCA
TGGCCCCGATCCCCAAGACCCTAAAGTTCGTCTCGTCATCGTCGCGGTCTCTGCTGCCAGTCCCTAGCTTACTCTG
CCACCACCTGCCCGGCAGGAGGAAGTTCCTCCAGCAGACAGTGGCCCCACAGCAACAGAGGCACAGCTTCAAGGGGG
AGGAGTGTCCAGCAGGATCTCATAGATCAGAACATACTGGAGCCTGTAAACCCGTGCACAGAGGGTGTGGATTACA
CCAACGCTTCCAACAATGAACCTTCTTGCTTCCCATGTACAGTTTGTAAATCAGATCAAAAACATAAAAGTTCTT
GCACCATGACCAGAGACACAGTGTGTCTAGTGTAAAGAAGGCACCTTCCGGAATGAAAACCTCCCAGAGATGTGCC
GGAAGTGTAGCAGGTGCCCTAGTGGGGAAGTCCAAGTCAGTAATTGTACGTCTCTGGGATGATATCCAGTGTGTTG
AAGAATTTGGTGCCAATGCCACTGTGGAAACCCAGCTGCTGAAGAGACAATGAACACCAGCCCCGGGGACTCCTG
CCCCAGCTGCTGAAGAGACAATGAACACCAGCCCAGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCA
GCCCCGGGGACTCCTGCCCCAGCTGCTGAAGAGACAATGACCACCAGCCCCGGGGACTCCTGCCCCAGCTGCTGAAG
AGACAATGACCACCAGCCCCGGGGACTCCTGCCTCTTCTCATTACCTCTCATGCACCATCGTAGGGATCATAGTTC
TAATTGTGCTTCTGATTGTGTTTGTGTTGAAAGACTTCACTGTGGAAGAAATTCCTTCCTTACCTGAAAGGTTTCA
GTAGGCGCTGGCTGAGGGCGGGGGCGCTGGACACTCTCTGCCCTGCCTCCCTCTGCTGTGTTCCACAGACAGA
AACGCCTGCCCCCTGCCCCAAGTCTGCTGTCTCCAGCCTGGCTCTATCTTCCTCCTTGTGATCGTCCCATCCCCA
CATCCCGTGCACCCCCCAGGACCCTGGTCTCATCAGTCCCTCTCCTGGAGCTGGGGGTCCACACATCTCCAGCC
AAGTCCAAGAGGGCAGGGCCAGTTCCTCCCATCTTCAGGCCAGCCAGGCAGGGGGCAGTCGGCTCCTCAACTGG
GTGACAAGGGTGAGGATGAGAAGTGATCACGGGATTTATTACGCTTGGTCAGAGCAGAAAAAAAAAAAAAAAAAA
AAAGATCTTTAATTA

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FIGURE 1147

MQGVKERFLPLGNSGDRAPRPPDGRGRVRPRTQDGVGNHTMARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVP
QQTIVAPQQQRHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSSCTMTRDITVCQ
CKEGTFRNENSPMCRKCSRCPSGEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAEETMNT
SPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPASSHYLSCTIVGIIIVLIVLLIVFV

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FIGURE 1148A

CTTTCCCAACAACCACAGAGGGAGTTAGGGATCAAACCTAACCTAGAACTATTTTCCTGACAGAATCTTTGCCTT
GCATGTTTCAGGCCCACCTGGCTCCTTTCACCTTTCTTACACAGGTGACATTCCCAGAACCTGGAGGCCAGGCTA
TGACACAGAGTCAATCAATAACCAGGGAGATCTGTGATATAGCCCAGTAGGTGGGGCCTTGCTGCCATCTGCCAT
ATGACCCCTTCCAGTCCCAGGCTTCTGAAGAGACGTGGTAAGTGCAGTTTCAACTGACCTCTGGACGCAG
AACTTCAGCCATGAAGGTAACAGGCATCTTTCTTCTCAGTGCCTTGGCCCTGTTGAGTCTATCTGGTAAGTGTG
CATATTTTTCAAATTTAAATAAAACTGTTTTGACCTGTTGCTTTGTGAAGCACATTATCTTCTAGACTTTTGATG
TAGTCTAGTCTTCGAGAGATGTTTTGGACCTAATGAGATGAAATAAAATCAACAGGTAAGAATTATTTTTTAAGA
GGAATTTTTAACCTACTATAAGGAAAACAATTCTACTAGTAAGAAATTTCCAGAAATAAAATGGTTTTCTCTAT
TGATGTGGCTGACCCCTTGTGTTGGGATATGGTAGAGAAAAAGGGTAAAAATATTTTAACTTTAAGTATACTTCTC
ATTCTGTAAATGTGTAAGGCCAAATTACAAATTTTAAATTCTCATGGGATTGCATAAAATAGATAAATGGCTTCC
AGTTATTCAGTATAAAAAGGCATAATTTGACTGATTAAAAATTTATTTTTTATTGTATAGTTTTCAGTGTACTTG
AATCATGTATAGTTTGTGAGATTTATCCCTGAATAGCTAATATATGTGATATAAAGGGAATTTTTTATTTTCAAT
TCCTGGTATTTCTTATTAGTATCTGGAAATACAAAAATTGCATTTTGTGTATTTACATTACACATTTTGAATGTT
TTGAAAGAAAATATTCTGCTTGAATAGATGGTGCACATATACCTCCAACCTGCATCTTGACAATGTTGACAGACAA
CTCTGAACCCGCAGAGCCAAGATCAGTTTCCTTTTTATCACTGGAAATGGTTAACATTTTCAACTTCACCTCTCA
TGTAAGTGAAGGATCCTGTGGAGAGCCAAATCAGCACTTTGCTAAGAAGAGGAAGAATATTGTTTGTTTTATTTGC
TGAATATTTATGGCAACAGTCAGTGTTCCTTTCCCTCTCATGCATGTTAATTAATACAAAATAGATGCCTGT
GATGAGCACCTGCTCTTCAGTTTTTAGACTCACTAGATTCTAAAAGCCAGTGGGCCCCCAACAACATCAAGTTC
TGACTATCCCGGGGAAATTTCTCCAAGCTCATAGATGCCTCACTAATTTTCATTACATTTAGATACAAAGAACTA
CCTCTTTGCTCAGATCACCTCAAAGATTGATGATATTAATAATTAATTTTCAGGAATGTTTCCTTATTTGATTGCT
ATCATATTAGTTCCCTTTCCCTTCCATGAACCTTATCCACAGTTATCATTTCCCTATATGTTGTGACGAAAACCTCT
GCTATTTTTCTGGGGGAATAGAGATTAGCTATTTTGACTACCTGTAAATTCACAAATGTGAGTTAGACCCATAGT
CCATATGATGCAATTGTTGGAAATAGCTCTTTGGGAACTGATAGTGAGTTGGCAAAGAAGCTCTATTTTTTCAAC
AATACTTACAAAAGGGAATTTAAATGIAATTGAAAAAGCTAACTTTGCATCAGAAGACCTGGTTACTGCTTATGA
TAACTGTTTCACAGCTAGTTATAAAAACTCTCCATACTTTTCATCTGTAACTGAGATAAAAAATTATACTTCACTA
ATTGTGAGATTAAAGATCTAGTAAGTGGTTTTGAGAATGTTTGTGAGTATTCAAAGATAATTTGCTCAGTGCCT
GATTCATTTCCAGCAGTAAGTGCATAATTTCTGTTTTCAAGGAAATAGATCAACTTCCTAAAACATCAAATCGAG
ATACTTTGGTCATAATCAAAGTTTTACTCAAACCTTTTTAAGGTTTTGCCAAGGAAGGGGTACAGGAAAATCAGTC
AGATACTTTTGAAGATTAGAGAAATCAGAAAGGGTGGGGAATGAAAGAGCCTAGTAAAGAAGTCACAGTCTGCA
ATGAAAGCAGAGAATTCTGATGAAGAATAGATCTGACTTCTTTTCATTAGGACCCAACCTACCATATCTGATTTAT
TTCTAGGTAACACTGGAGCTGACTCCCTGGGAAGAGAGGTAAAGAGATATTTGTAATTTCTTATTTCTCAGACTG
GAACAGTTTGATCCAACAAAAATGCAGCCTTGCTGTACCTTTTCAGTTTAGCCTGAAGTTAAGAGGAGTATGAAT
GCTAGGGAGGGTTAACGTGAGAAATGCAAATGGTAGTAGTATCCAACCCACAGGCGTATATTGAAGGACAATT
TCACTGATGTATAAGCAAGTTCCATATAGTCTTACAGTGCCTGCTGTGAAGGGGTTTTTATATAGACTAGTGATA
GCTGTAGACAAGTATTTGGGGTGAAGCCTTCTCAACTTCACTCCAAGTAGCCCTTCCTCCTTACAGCCAGTTTG
ACCATGTTGGCATGCAGCTCTCCCAATCACCAGGTGTGGCTCTAATTTATAATGAATGACAGAAAATAATAAAC
TAGGTTCTCCTTCTAGAAAAATATTCTAACTCTAACCTTTTCAATTTTTTTGTTTAAAGAGGTAATTTTCAGTAAA
TTTGGAGACCAGAGGAAGAAGTGTCCCTGTTCTCAGTACATTTATATCTAGTCAGAGACAGCTGATAGACAAAA
GTTTCATGAATGAATGCAATATTACATTTGTGATAAGTGTTATGAAAAAGTTCTGCTGCCGTTAGGAACTTAGCCT
AGTTAGAAAAATCAGGGAGGGTGTCCGAAGTAACTGAGGGGTATTTTGAGCCAAAAAATGAGTGTTAG
TAAAACAAAACCTGGTGGGGAGATGTAGTAGAATAAAGTACTTAAGAGCTAAAGCTCAGGAACTCTGACTAGGTTT
GAATTCTGAATTTAGGAATTCCTTAGCTGGGTGGCCTTGCTAATTTTATTGCTTTGTGCCTCATTATCTTCACC
TGAAGAAGAATATAATACTTAGTTCACAGGATAGTTAGGAGGTTTAAACAGAATAATATATAAAAAGCACTAGAA
CAATGTCTAGGACAATGACAATCATTTGATGATTATAAACTCTTACTGGAGTAGAATGCAAAGACTTCCAACACC
CGACAATGCCCTAGTGCCTTTAAAGTGCTAATAGAAGACCAGTGTTGTGGACTACAGTGTACAAGGAAGAACGTG
CCCCAAGATGTGGCCAACCTGAGAGATGCCAGCACCCGCAGTAATTGCAAACCTTGAACATTATCTCACCCATCCA
TGTAATCTCACACAACACTATGAGATAGGTGGGAAATGGTAATATCATCACTGTTTTGCAGATGAAGTGAAGT
AGTTTCAGAAGGGCCATAGGACTTACTAATGTACACAGCTTAGAAATAGCAGAGGCATGACTTAAACAAGGTT

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FIGURE 1148B

TTCTGTCTCCAGATAGTAGGTTATTTCTCTTACAACACACAGTATCATTCTCCCAATCACAGTTATTCCCCAGAG
AAATAAAACCATTTCAGAGATTTTGCTATGAACTCAAGAATGGAGAATAATGGGAAATGATTCTGTGTTAATTCCA
TTTTTAGGCCAAATGTTACAATGAACTTAATGGATGCACCAAGATATATGACCCTGTCTGTGGGACTGATGGAAA
TACTTATCCCAATGAATGCGTGTTATGTTTTGAAAATCGGTGAGTACAACTTGAGTTTCTTTTAACTATATAT
TTTAAGTTAGTTATCTTCAAGTGTACTGATAATATGAATCTCACCCCGAGAAAAGCAAACCTATTTACTTTTTCCA
AAAACAGTTATCTCTTTCTTATTCTCCCTTTTATATATTTAGCATTAAATATTATTTTTTTAGAAGTCACCTTGAT
GATAAAAGCCTATATTTTTTACAGCAAATAGTCGATAGCTTGGATTTTTATAAAGTACACACAAAATACCTTTA
ATTAAAAAATTATTAGTGGTTGCAATGATTGTGTTTTTAAAGCCCTCAGTTATGCAAATATAAATTGTATAGA
TTATATAACCAAAAATATATTTTTACTTATGGATATGAAGCCAGTTTCAGTAAAGCTTCATTTCCCTCAGTGACCA
TAAGTGGTGATGTGATACAGAGAAATAGATTCAACACAGATTTCCCTATCTCACTCAGCAACTGAAACCTTAGCAT
GTCTCAAGCATCATGCTAATATTCCCTGTCTTACTTGTGCTTATGACTAAGAAAACATCATGAGCATGTATAGGA
TGGCTTCTTATAACTTGGGGCAAATGCCAGAAGATGAGGTGTAAATAAAGTGCAACAGGAGTGAAGCAGAGATAC
ATATTTTTTATTAAAGGGGCCAAGAAAGGATCCATGAAAAGAATAGAATGCCCAACCGGGTGCACTGGCTCACT
CCTGAATCCCAGCACTTTGGGAGGCCGATGCAGGTGGATCACCTGAGACCGCTGGCCAACATGGTGAAACCCCA
TGGTGGCGGGCGCTATAATACCAGCTACTCAGGAGGCTGAGGCAGAAGAATCGCTTCAATCTGGGAGGCAGAGG
TTGCAGTGAGCTGAGATTGTGCCACTGCCTCCAACCTGGGTGACAAGAGTGAGACTCCATCTTAAAAAAGGA
AAAAAAGAATAGAATGCCATTTAAATAGAGTTCTGAATTTTGGCAATATCAAAAGAGCATGCCAGGTTAAATA
AAGGTGTGGAATGAACAAAGCAAATAAAAGGGATTCCACGAGTGACTTTAGTTTTCTGAGATTGACTTGATATT
AAAGACTTTGACTCAGGCTCAAATGACTGTGTAAATTTCCATTATATTCTACTGCATAAATTCCTTTTTCTGTAA
TGCAAACCTTCTTCTTGGGCTGTTTTAAACCATTTTGAAAATTCTCAGAGTTTAGCAAGTATTGTGGAATAGG
ACCTCTGGATGAGAGGTCTAATATCCTGAAGTTTTAGACCCAAAACATTAGGTATTCTACTTTGTAATAAATCTG
TTTCATAATTAAGACTTGTAAGAAGATTTGAAGCCACCTGTTAGTTTTCTCATGACCCATGTTCTTGACATTA
AGCTCAAACATCATATTTCCATCCAATGGGAGGAGAAAGCAAGAGAACAACAGCTTTGAGACTTGGGAAATTTCC
AGTGCCGCTCAACATTACAGTGAAACATTAGAAAAATATTAGTAGAGGGCTGGAACACCCTATCTGCTTAGCCT
CTGAAACCTCCGAGTTTCTGCTTATTCTTTCTATTTGTTCAAACTATGTAAATATGGGAGGCACATTTGTATGC
TAGAAAACATGACCTCTCTTCTATATTTCTCAGATAAGAAAATTTAGGTCTAGAGACAAAATGTTGCTTTCTCA
AATACAACATATTTCCCTAATGTATGACATTGCCTTTTTTCACTGTTGATTAAAAGTCCCAAACCTTATTACCTAGTA
ACTAAAGCCAGACGCTGACCTAGTTTGAGACAAGTAGATAATACCAAACAAGGGCTTGCAAATCAGTCTTTTTTG
GTGATTATGTGCTTGGCAAATATATTCAATAAACACTTTTTCTATTCTCTACGTCTTCATAGGGAATCTGTAC
CGGCAAATTTCTTTCCATAAACCTGCATCTCCAATAGAACCTTCTATAATGATGGAAATGTTCTATGTTTATGCT
GTCTAATACATAGCCACTAGCCACAAAACAGTAGCCTTAATGTGGCTAACACTAACTTAAATGTGGCTAGTAAAA
CTGATCAGCTGAATATTTAATATTATCTAACTAATTTACATTTACATAGCTATATGTGGATAGTGAATATATGA
AACTAGAGTGAACAGCATAGCAACTCTTGTATTCTGTTTAGGTGTGTGTGCTTATGTATGCTAACTGATTGG
AAATCAGTATTAATGAGCAGTTAATGATTGTGGGACAAGAAAGCATTAAAAATCTTAAAGAGTTTGGCTGGGCA
TGGTGGCTCATGCCTGTAATCCCAGCACTTTGGAAGTCCCAGGCAGGTGGATCACTTTTGTAGGAGTTTGAGAC
CAGCCTGGCCAACATGGTAAAACCCGCTCTCTACTAAAAATACAAATATTAGCCAGGCATGGTGGCATTACCTG
TAATCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCGGGAGGTGGAGGCTGCAGTGAGCCAAGG
TCACACCACTGCCTCCAGCCTGGGCAACAGAGTGAGACTCTGTCTTAAAAAAGAAAAAAGAAAAAAGAAA
AGAAAAAAGAAAAAAGTATATGGAAGTCAGATGTCCTTCAGTAATAGAGAAGTAGAAGAATTTTTGTAA
GCCCCGTACATTCAAAGAAAAAATGGTTAGAAAAATTAAAGACCTGGAAACAGTCTTCTAGGGAACAATTATAAAA
TTTAGAGATATTTAGTTTAGGGAAGAGAAAAGTATTTGGTAATGGTAGTGTGGGGCGAACAGAGAGGTTTTATC
TGGAGGGGAGGATGTTTAGAACTGGCAGGAATCATGTGGAATAAATATGTGATTTACTTTTGTGAGACCTCACAG
ATACGAATCCCCAGAGCTCTAAGATGAAAGGTCAATCAATTAGAAGGTCCAACAATAGCTCAGGCATCAGCTGAG
ATGGAAACCTGGTGGCGAAGGCAGAGGCATCAGGAGCAAAAGATGCAACAATAGTTTTGAGTTTAATTTAGGGG
TTCCTGTAACACCCACGAGATCTGTAAAACTGTAAAGGACAGATATTTTCTTTCTGTTGTATCCTTAGTGA
TTCAACAGTAATCAATAAATATTTGATGAATTAATGACTAAGTGAATGTATAAATGAATGAAAGACAGAGAAAAA
ATTATAAATCTCAAACCTCTCAAACCTTTAAATGAAGCTGTTATTTTTCCCTTGTTTTCTCCCATAGTCACTTT
TCATCAGTGAAGTTTAAGCTGATATATTTTTTTTAAATCTCTACTGCAGGAAACGCCAGACTTCTATCCTCATTCA

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FIGURE 1148C

AAAATCTGGGCCTTGCTGAGAACCAAGGTTTTGAAATCCCATCAGGTCACCGCGAGGCCTGACTGGCCTTATTGT
TGAATAAATGTATCTGAATATCCCCGTGTTGTTCCATTGCTTTTTCTCAAAGGTATGTTTGATTATACCAGGG
TCAGGGGACTTTGGTAAGAC

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FIGURE 1149

AGCAAAATCAAGCAGTTGGTTAGCGAAGGGATTTCGGTGCAGATGGATGGACCGTCTGGGCTGCGGAGTCCACGGG
CCTGAAACGCGGTGCTCCTGACCCGTCTCCGCAACCCTCGTCCCACCAGGCCGCGGTCCCCGGAGCAGGCCGG
CGGGTGGCAGGAAGACACCAGGCTGCAGGGGGCTGGAGAAGCAACACCCCTCTCCCTCCCCGCCAGAGAACTGGA
GCGCGGGGACCTCGGTTGCGGATGCTGGCGGCGAGCCGGGTTGCTAGGCGACATCGAGAGAGGAAGAGGAGAAAG
TCTTCATGGGGTGTCTAGAGCATCTTAAATGTCCCTCTCATGCAGGGACATTTCCCTGCTGAACGAAGAGAAGGCA
GACCTCGGCGAGGGACCCGTGGTCAGCAGCAGCTTCTGGTGAGCCCCCGCTTCCTCCGAGCCTGGCACCCCCCTC
CCGTCTCAGCCAGGATGCCAACGAGGCGCTGGGCCCCGGGCACCCAGTGTATCACCAAATGCGAGCACACCCGCC
CCAAGCCAGGGGAGCTGGCCTTCCGCAAGGGCGACGTGGTCACCATCCTGGAGGCCTGCGAGAACAAGAGCTGGT
ACCGCGTCAAGCACACACCAAGTGGACAGGAGGGGCTGCTGGCAGCTGGGGCGCTGCGGGAGCGGGAGGCCCTCT
CCGCAGACCCCAAGCTCAGCCTCATGCCGTGGTTCCACGGGAAGATCTCGGGCCAGGAGGCTGTCCAGCAGCTGC
AGCCTCCCGAGGATGGGCTGTTCCCTGGTGCGGGAGTCCGCGCGCCACCCCGGCGACTACGTCTGTGCGTGAGCT
TTGGCCGCGACGTATCCACTACCGGTGCTGCACCGCGACGGCCACCTCACAATCGATGAGGCCGTGTTCTTCT
GCAACCTCATGGACATGGTGGAGCATTACAGCAAGGACAAGGGCGCTATCTGCACCAAGCTGGTGAGACCAAAGC
GGAAACACGGGACCAAGTCGGCCGAGGAGGAGCTGGCCAGGGCGGGCTGGTTACTGAACCTGCAGCATTGTGACAT
TGGGAGCACAGATCGGAGAGGGAGAGTTTGGAGCTGTCTGTCAGGGTGAGTACCTGGGGCAAAGGTGGCCGTGA
AGAATATCAAGTGTGATGTGACAGCCCAGGCCTTCCCTGGACGAGACGGCCGTATGACGAAGATGCAACACGAGA
ACCTGGTGCGTCTCCTGGGCGTGATCCTGCACCAGGGGCTGTACATTGTCATGGAGCACGTGAGCAAGGGCAACC
TGGTGAACTTTCTGCGGACCCGGGGTTCGAGCCCTCGTGAACACCGCTCAGCTCCTGCAGTTTTCTCTGCACGTGG
CCGAGGGCATGGAGTACCTGGAGAGCAAGAAGCTTGTGCACCGCGACCTGGCCGCCCGCAACATCCTGGTCTCAG
AGGACCTGGTGGCCAAGGTCAGCGACTTTGGCCTGGCCAAAGCCGAGCGGAAGGGGCTAGACTCAAGCCGGCTGC
CCGTCAAGTGGACGGCGCCCGAGGCTCTCAAACACGGGAAGTTCACCAGCAAGTCGGATGTCTGGAGTTTTGGGG
TGCTGCTCTGGGAGGTCTTCTCATATGGACGGGCTCCGTACCCTAAAATGTCACTGAAAGAGGTGTGCGAGGCCG
TGGAGAAGGGGTACCGCATGGAACCCCCGAGGGCTGTCCAGGCCCGTGCACGTCTCATGAGCAGCTGCTGGG
AGGCAGAGCCCGCCCGCCGGCCACCCTTCCGCAAACTGGCCGAGAAGCTGGCCCGGGAGCTACGCAGTGCAGGTG
CCCCAGCCTCCGTCTCAGGGCAGGACGCCGACGGCTCCACCTCGCCCCGAAGCCAGGAGCCCTTGACCCACCCGG
TGGGGCCCTTGGCCCCAGAGGACCGAGAGAGTGGAGAGTGGCGCTGGGGGCACTGACCAGGCCCAAGGAGGGTC
CAGGCGGGCAAGTCATCCTCCTGGTGCCACAGCAGGGGCTGGCCACGTAGGGGGCTCTGGGCGGCCCGTGGAC
ACCCAGACCTGCGAAGGATGATCGCCCGATAAAGACGGATTCTAAGGACTCTAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 1150

MQGHFPAERREGRPRRGTRGQQQLLVSPRFLRAWHPPPVSARMPTRRWAPGTQCITKCEHTRPKPGELAFRKGDV
VTILEACENKSWYRVKHHTSGQEGLLAAGALREREALSADPKLSLMPWFHGKISGQEAVQQLOPPEDGLFLVRES
ARHPGDYVLCVSFGRDVIHYRVLHRDGHILTIDEAVFFCNLMDMVEHYSKDKGAICTKLVRPKRKHGTSAAEEELA
RAGWLLNLQHLLTGAQIGEGEFGAVLQGEYLGQKVAVKNIKCDVTAQAFLDDETAVMTKMQHENLVRLLGVLHOG
LYIVMEHVSKGNLVNFLRTRGRALVNTAQLLQFSLHVAEGMEYLESKKLVHRDLAARNILVSEDLVAKVSDFGLA
KAERKGLDSSRLPVKWTAPEALKHGKFTSKSDVWSFGVLLWEVFSYGRAPYPKMSLKEVSEAVEKGYRMEPPEGC
PGPVHVLMSSCWEAEFARRPPFRKLAEKLAELRSAGAPASVSGQDADGSTSPRSQEP

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FIGURE 1151

GAGCACC GCACACTCACTTCACCCTGGTTCAACACCCCCACGAGGTTGACCCCGTCATTATGTTAGAGATTATGC
ATTTTCCACATAGGGAAACTGAGGCTCAGGGGTGTTAAGTGA CTACCCAAGGTCACACGGCTAGGAAGTTGCTG
CACGCTCCTATGCTCCATTTCTCTGGGAGCCTATCAACCCAGATAAAGCGGGACCTCCTCTCTGGTAGAGGTGC
AGGGGGCAGTACTCAACATGATCACAGAGGGAGCGCAGGCCCTCGATTGTTGCTGCCGCCGCTGCTCCTGCTGC
TCACCCTGCCAGCCACAGGCTCAGACCCCGTGCTCTGCTTCACCCAGTATGAAGAATCCTCCGGCAAGTGCAAGG
GCCTCCTGGGGGGTGGTGTGTCAGCGTGGAAGACTGCTGTCTCAACACTGCCTTTGCCTACCAGAAACGTAGTGGTG
GGCTCTGTGTCAGCCTTGAGGTCCCCACGATGGTCCCTGTGGTCCACATGGGCCCCCTGTTCCGGTGACGTGCTCTG
AGGGCTCCAGCTGCGGTACCGGCGCTGTGTGGGCTGGAATGGGCAGTGCTCTGGAAAGGTGGCACCTGGGACCC
TGGAGTGGCAGCTCCAGGCCTGTGAGGACCAGCAGTGCTGTCTGAGATGGGCGGCTGGTCTGGCTGGGGGCCCT
GGGAGCCTTGCTCTGTGTCACCTGCTCCAAAGGGACCCGGACCCGAGGCGAGCCTGTAATCACCTGCTCCCAAGT
GTGGGGGCCACTGCCCAGGACAGGCACAGGAATCAGAGGCCTGTGACACCCAGCAGGTCTGCCCCACACACGGGG
CCTGGGCCACCTGGGGCCCCCTGGACCCCTGCTCAGCCTCCTGCCACGGTGGACCCACGAACCTAAGGAGACAC
GAAGCCGCAAGTGTTCTGCACCTGAGCCCTCCCAGAAACCTCCTGGGAAGCCCTGCCCGGGGCTAGCCTACGAGC
AGCGGAGGTGCACCGGCCTGCCACCCTGCCCAGTGGCTGGGGGCTGGGGGCCCTGGGGCCCTGTGAGCCCCTGCC
CTGTGACCTGTGGCCTGGGCCAGACCATGGAACAACGGACGTGCAATCACCTGTGCCCCAGCATGGGGGCCCT
TCTGTGCTGGCGATGCCACCCGGACCCACATCTGCAACACAGCTGTGCCCTGCCCTGTGGATGGGGAGTGGGACT
CGTGGGGGGAGTGGAGCCCCTGTATCCGACGGAACATGAAGTCCATCAGCTGTCAAGAAATCCCGGGCCAGCAGT
CACGCGGGAGGACCTGCAGGGGGCCGCAAGTTTGACGGACATCGATGTGCCGGGCAACAGCAGGATATCCGGCACT
GCTACAGCATCCAGCACTGCCCCCTTGAAAGGATCATGGTCAGAGTGGAGTACCTGGGGGCTGTGCATGCCCCCT
GTGGACCTAATCCTACCCGTGCCCGCCAGCGCCTCTGCACACCCTTGCTCCCCAAGTACCCGCCCACCGTTTCCA
TGGTCTGAAGGTGAGGGCGAGAAGAAGCTGACCTTCTGGGGGAGACCGCTGCCACGGTGTGAGGAGCTACAAGGGC
AGAAGCTGGTGGTGGAGGAGAAACGACCATGTCTACACGTGCCTGCTTGCAAAGACCCTGAGGAAGAGGAACCTT
AACACTTCTCTCCTCCACTCTGAGCCCCCTGACCTTCCAAACCTCAATAAA

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FIGURE 1152

MITEGAQAPRLLLLPPLLLLLLTLPATGSDPVLCTQYEESGKCKGLLGGGVSVEDCCLNTAFAYQKRSGGLCQPC
RSPRWSLWSTWAPCSVTCSEGSQLRYYRCVGWNGQCSGKVAPGTLEWQLQACEDQQCCPEMGGWSGWGPWEPCSV
TCSKGTRTRRRACNHPAPKCGGHCPGQAQSEACDTQQVCP THGAWATWGPWTPCSASCHGGPHEPKETR SRKCS
APEPSQKPPGKPCPGLAYEQRRCTGLPPCPVAGGWGPWGPVSPCPVTCGLGQTMEQRTC NHPVPQHGGPFCAGDA
TRTHICNTAVPCPVDGEWDSWGEWSPCIRRNMKSI SCQEIPGQQSRGRTCRGRKFDGHR CAGQQQDIRHCYSIQH
CPLKGSWSEWSTWGLCMPPCGPNPTRARQRLCTPLLPKYPTVSMVEGQGEKNVTFWGRPLPRCEELQGQKLVVE
EKR PCLHVPACKDPEEEEL

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FIGURE 1153

TTCCTTTCAAATACACACCCCAACCCGCCCGGCATACACAGAAATGGGGACTGCGAGCAGAAGCAACATCGCTC
GCCATCTGCAAACCAATCTCATTTCTATTTTGTGTCGGTGCTGTGGGCGCCTGTACTCTCTCTGTACACAACCGT
GGTACCTAGAAGTGGACTACACTCATGAGGCCGTCACCATAAAGTGACCTTCTCCGCAACCGGATGCCCTTCTG
AGCAACCAACATGCCTGTGGTTTCGCTACGGTGCTCACCAGCCTGAGAACCTGTGCTTGGACGGGTGCAAAAGTG
AGGCAGACAAGTTCACAGTGAGGGAGGCCCTCAAAGAAAACCAAGTTTCCCTCACTGTAAACAGAGTGAATTCAA
ATGACAGTGCAATTTACATCTGTGGAATAGCATTCCCCAGTGTCGCGGAAGCGAGAGCTAAACAGACAGGAGGAG
GGACCACACTGGTGGTAAGAGAAATTAAGCTGCTCAGCAAGGAACTGCGGAGCTTCCTGACAGCTCTTGTATCAC
TGCTCTCTGTCTATGTGACCGGTGTGIGCGTGGCCTTCATACTCCTCTCCAAATCAAAATCCAACCCTCTAAGAA
AGAAAGAAATAAAAGAAGACTCACAAAAGAAGAAGAGTGCTCGGCGTATTTTTTCAGGAAATTGCTCAAGAACTAT
ACCATAAGAGACATGTGGAAACAAATCAGCAATCTGAGAAAGATAACAACACTTATGAAAACAGAAGAGTACTTT
CCAACCTATGAAAGGCCATAGAAACGTTTTAATTTTCAATGAAGTCACTGAAAATCCAACCTCCAGGAGCTATGGCA
GTGTTAATGAACATATATCATCAGGTCTTAAAAAAAATAAAGGTAACTGAAAAGACAACCTGGCTACAAAGAA
GGATGTCAGAATGTAAGGAACTATAACTAATAGTCATTACCAAAATACTAAAACCCAACAAAATGCAACTGAAA
AATACCTTCCAAATTTGCCAAGAAAAAAATTCTATTYYAACT

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FIGURE 1154

MGTASRSNIARHLQTNLILFCVGAVGACTLSVTQPWYLEVDYTHEAVTIKCTFSATGCPSEQPTCLWFRYGAHQ
ENLCLDGCKSEADKFTVREALKENQVSLTVNRVTSNDSAIYICGIAFPSVPEARAKQTGGGTTLVVREIKLLSKE
LRSFLTALVSLLSVYVTGVCVAFILLSKSKSNPLRKKEIKEDSQKKKSARRIFQEIAQELYHKRHVETNQQSEKD
NNTYENRRVLSNYERP

1301/2825
FIGURE 1155

GTTAGAGAACGTCGCGGAGGAGGTAAGCGTCGCTTGGCGCCTGGCCGCCGCGGGCAGGATACACCGTGGGCCTGA
GGCGCGAGCCCGGCGGCGTGC GGCCCTCTCTCCGCGCGGAGCCGAGCCGGAAC TCGGCAGTCTCTCCCTGCCAG
GCTCTTCATCCAAGGTTTTCTGTGGATCCCTTCTGAAGTTCTATCTGAAAATTGCGCTTAAGTGAATTTTCTGTTA
GAAGAAGTTGGTTGCTACTTTCTTGTCAGATGATTGCAACACCTTTTGAAACATTCAAGAATTTACTTACCTCCA
GAGGCATCTTCTCAAAGGAGAAATCTACCCATGGATGCAATCTTTTTTGACAGCATTCCTTCAGGCACACTTACT
CCTGTAAAAGATTTGGTGAAATATCAGAACTCCTCCTTAAAATTGAATGACCATAAAAAAGAATCAGTTCCTAAAA
ATGACAACTTTTAACAATAAAAAATATATTTCAATCAACTATGCTAACAGAGGCTACTACCTCTAACAGTTCTCTT
GATATCAGTGCTATAAAGCCCAACAAGGATGGATTAAAAAATAAAGCAAACATATGAATCACCAGGAAAAATATTT
CTAAGAATGAAAGAAAAAGTACTGCGTGACAAGCAAGAACAGCCATCAAGAAACAGTAGTTTGTGGGAACCACAG
AAAAGTGGAATAATGAAACCTTCACTCCTAACAGAGTTGAAAAAAAATTCAGCATACTTACCTATGTGAAG
AAAAGGAAAAACAACAAATCATTCCAGTCAGATGACAGTTCACTAAGAGCCTCAGTCCAAGGAGTTCCTCTAGAAT
CATCAAATAATGATATTTTCTCCCGGTCAAACAAAAGATTTCAGTGCCAGCAGGAAAAGAAAGCACCCTGCACA
ATTTAACTTACGAACTTCCAACCTCTGAACCAAGAACAGGAAAATTTTTGGCTGTAGAAGCCCGAAACAAGACAT
TAACTAGAGCTCAGTTGGCTAAACAAATTTTTCACTCAAAGGAGAGTATAGTTGCAACCCTAAATCCAAAAGG
ACACGTTTGTGTTTAGAAAAGCGTTGATTCTGCTGATGAACAATTTCAAATACTAATGCTGAGACTCTCAGTACTA
ATTGTATTCCTATTAAAAATGGCAGCCTGTTAATGTTTTCTGATAGTGAGAGGACAACAGAAGGGACTTCGCAAC
AGAAAGTTAAGGAAGGAAATGGAAAAACAGTGCCTGGAGAGACAGGTCTTCCAGGTTCCATGAAAGATACATGTA
AAATTGTACTTGCAACACCAAGACTTCATATAACAATACCTCGGAGGTCAAAAAGAAATATTTCAAAGCTTTCTC
CTCCAAGAATATTTCAAACCTGTTACAAATGGACTTAAAAAAAATCAGGTAGTTTACAGCTACAGGAATGGATGATTT
AAAGCATCAATAATAATACTGCTATAIGTGTAGAAGGAAAATTGATAGACGTCCTAACATATATTGGCACAGTA
ATGTAATTATAGAGCGGATTGAGCACAACAACTTAGGACTATATCAGGCAACGTTTATATATTTAAAGGCATGA
TAGACCAAATTTCCATGAAAGAAGCAGGATATCCAAATTATCTCATAAGGAAATTTATGTTTGGATTTCCAGAAA
ATTGGAAAGAGCACATTGATACTTTCTGGAACAATTAAGAGATGGGGTTTCGTGATGTTGGCCAGACTGGTCTC
GAACTCCTGGCTACAAGTGATCCGCCTGTCTCAGCCTCCCAAAGTGTGGGATTACAGGCATGAGCCACTGTGCC
TGGCCTGAGGGCTGGTGAAAAGAACAGGGAAGAGACCAAACAAAAACAGAAAACCTGGAAGATCTGTCCGTGACAT
AAGGAAATCAATGAAAAATGATGCACGAGAAAACCAAACAGATACTGCTCAAAGAGCCACCACCTTACGATTT
TGATTGTGATAATTTGGAACCTGAAGAGTAATAAGCACAGTGAGTCACCAGGAGCTACAGAATTAACATGTGCCA
CAGTAATTGCCAAAATAAACCAACATTAAGGTTCCAGATGACCAAGTAAATAATACTATTCAAATGGAGGAGG
AGATGACTTATCTAATCAGGAATTAATTGG

1302/2825
FIGURE 1156

MIATPLKHSRIYLPPEASSQRRNLPMDAIFFD SIPSGTLTPVKDLVKYQNSSLKLN DHKKNQFLKMTTFNNKNIF
QSTMLTEATTSNSSLDISAIKPNKDGLKNKANYESPGKIFLRMKEKVL RDKQE QPSRNSSLLEPQKSGNNETFTP
NRVEKKNC SIPTYVKKRKT TNHSSQMTVH

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FIGURE 1157

TCAGCCAATTAGAGCTCCAGTTGTCACTCCTACCCACACTGGGCCTGGGGGTGAAGGGAAGTGTTTATTAGGGGT
ACATGTGAAGCCGTCCAGAAGTGTGAGAGTCTTTGTAGCTTTGAAAGTCACCTAGGTTATTTGGGCATGCTCTCC
TGAGTCCTCTGCTAGTTAAGCTCTCTGAAAAGAAGGTGGCAGACCCGGTTTGCTGATCGCCCCAGGGATCAGGAG
GCTGATCCCAAAGTTGTGAGATGGAGAGTAAATACAAGGAGATACTCTTGCTAACAGGCCTGGATAACATCACTG
ATGAGGAAGTGGATAGGTTTAAGTTCTTTCTTTTCAGACGAGTTTAATATTGCCACAGGCAAACACTACATACTGCAA
ACAGAATACAAGTAGCTACCTTGATGATTCAAAATGCTGGGGCGGTGTCTGCAGTGATGAAGACCATTTCGTATTT
TTCAGAAGTTGAATTATATGCTTTTGGCAAAACGTCTTCAGGAGGAGAAGGAGAAAGTTGATAAGCAATACAAAT
CGGTAACAAAACCAAAGCCACTAAGTCAAGCTGAAATGAGTCCTGCTGCATCTGCAGCCATCAGAAATGATGTCTG
CAAAGCAACGTGCTGCACCAAAAGTCTCTCCTCATGTTAAGCCTGAACAGAAACAGATGGTGGCCCAGCAGGAAT
CTATCAGAGAAGGGTTTCAGAAGCGCTGTTTGCCAGTTATGGTACTGAAAGCAAAGAAGCCCTTCACGTTTGAGA
CCCAAGAAGGCAAGCAGGAGATGTTTCATGCTACAGTGGCTACAGAAAAGGAATTCTTCTTTGTAAAAGTTTTTA
ATACACTGCTGAAAGATAAATTCATTCCAAAGAGAATAATTATAATAGCAAGATATTATCGGCACAGTGGTTTCT
TAGAGGTAAATAGCGCCTCACGTGTGTTAGATGCTGAATCTGACCAAAAGGTTAATGTCCCGCTGAACATTATCA
GAAAAGCTGGTGAAACCCCGAAGATCAACACGCTTCAAACTCAGCCCCTTGGAACAATTGTGAATGGTTTGTTTG
TAGTCCAGAAGGTAACAGAAAAGAAGAAAAACATATTATTTGACCTAAGTGACAACACTGGGAAAATGGAAGTAC
TGGGGGTTAGAAACGAGGACACAATGAAATGTAAGGAAGGAGATAAGGTTGACTTACATTCTTCACACTGTCAA
AAAATGGAGAAAAACTACAGCTGACATCTGGAGTTCATAGCACCATAAAGGTTATTAAGGCCAAAAAAAAAACAT
AGAGAAGTAAAAAGGACCAATTCAAGCCAACTGGTCTAAGCAGCATTTAATTGAAGAATATGTGATACAGCCTCT
TCAATCAGATTGTAAGTTACCTGAAAGCTGCAGTTCACAGGCTCCTCTCTCCACCAAATTAGGATAGAATAATTG
CTGGATAAACAAATTCAGAATATCAACAGATGATCACAATAAACATCTGTTTCTCATTCC

1304/2825
FIGURE 1158

MESKYKEILLLTGLDNITDEELDRFKFFLSDEFNIATGKLHTANRIQVATLMIQNAGAVSAVMKTIRIFQKLN
LLAKRLQEEKEKVDKQYKSVTKPKPLSQAEMSPAASAAIRNDVAKQRAAPKVSPHVKPEQKQMVAAQ
QESIREGFQKRCLPVMVLKAKKPFTFETQEGKQEMFHATVATEKEFFVVKVFNTLLKDKFIPKRIII
IARYYRHSGFLEVNSASRVLDAESDQKVNPLNIIRKAGETPKINTLQTQPLGTIVNGLFVVQKVTE
KKKNILFDLSDNTGKMEVLGVRNEDTMKCKEGDKVRLTFFTL SKNGEKLQLTSGVHSTIKVIKAKKKT

1305/2825
FIGURE 1159

GAAAAGGTGGACAAGTCCTATTTTCAAGAGAAG**ATG**ACTTTTAAACAGTTTTGAAGGATCTAAAACCTTGTGTACCT
GCAGACATCAATAAGGAAGAAGAATTTGTAGAAGAGTTTAATAGATTAAAAACTTTTGCTAATTTTCCAAGTGGT
AGTCCTGTTTTAGCATCAACACTGGCAGCAGCAGGGTTTTCTTTATACTGGTGAAGGAGATACCGTGCGGTGCTTT
AGTTGTGCATGCAGCTGTAGATAGATGGCAATATGGAGACTCAGCAGTTGGAAGACACAGGAAAGTATCCCCAAAT
TGCAGATTTATCAACGGCTTTTATCTTGAAAATAGTGCCACGCAGTCTACAAATTCTGGTATCCAGAATGGTCAG
TACAAAGTTGAAAACCTATCTGGGAAGCAGAGATCATTTTGCCTTAGACAGGCCATCTGAGACACATGCAGACTAT
CTTTTGAGAACTGGGCAGGTGTAGATATATCAGACACCATATACCCGAGGAACCCTGCCATGTATTGTGAAGAA
GCTAGATTAAAGTCCTTTCAGAACTGGCCAGACTATGCTCACCTAACCCCAAGAGAGTTAGCAAGTGCTGGACTC
TACTACACAGGTATTGGTGACCAAGTGCAGTGCTTTTGTGTGGTGGAAAACCTGAAAATTTGGGAACCTTGTGAT
CGTGCTGGTTCAGAACACAGGCGACACTTTCCTAATTGCTTCTTTGTTTTGGGCCGGAATCTTAATATTGCAAGT
GAATCTGATGCTGTGAGTTCTGATAGGAATTTCCCAAATTCACAAATCTTCCAAGAAATCCATCCATGGCAGAT
TATGAAGCACGGATCTTTACTTTTGGGACATGGATATACTCAGTTAACAAGGAGCAGCTTGCAAGAGCTGGATTT
TATGCTTTAGGTGAAGGTGATAAAGTAAAGTGCTTTCAGTGTGGAGGAGGGCTAACTGATTGGAAGCCCAGTGAA
GACCCTTGGGAACAACATGCTAAATGGTATCCAGGGTGCAAATATCTGTTAGAACAGAAGGGACAAGAATATATA
AACAATATTCAATTAACCTCACTTGAGGAGTGTCTGGTAAGAACTACTGAGAAAACACCATCACTAACTAGA
AGAATTGATGATACCATCTTCCAAAATCCTATGGTACAAGAAGCTATACGAATGGGGTTCACTTTCAAGGACATT
AAGAAAATAATGGAGGAAAAAATTCAGATATCTGGGAGCAACTATAAATCACTTGAGGTTCTGGTTGCAGATCTA
GTGAATGCTCAGAAAGACAGTATGCAAGATGAGTCAAGTCAGACTTCATTACAGAAAGAGATTAGTACTGAAGAG
CAGCTAAGGCGCCTGCAAGAGGAGAAGCTTTGCAAAATCTGTATGGATAGAAATATTGCTATCGTTTTTGTTCCT
TGTGGACATCTAGTCACTTGTAACAATGTGCTGAAGCAGTTGACAAGTGTCCTCATGTGCTACACAGTCATTACT
TTCAAGCAAAAAATTTTTATGTCT**TAA**TCTAACTCTATAGTAGGCATGTTATGTTGTTCTTATTACCCTGATTGA
ATGTGTGATGTGAACCTGACTTTAAGTAATCAGGATTGAATTCCATTAGCATTGTGCTACCAAGTAGGAAAAAAAT
GTACATGGCAGTGTTTTAGTTGGCAATATAATCTTTGAATTTCTTGATTTTTCAGGGTATTAGCTGTATTATCCA
TTTTTTTTACTGTTATTTAATTGAAACCATAGACTAAGAATAAGAAGCATCATACTATAACTGAACACAATGTGT
ATTATAGTATACTGATTTAATTTCTAAGTGTAAGTGAATTAATCATCTGGATTTTTTATTCTTTTCAGATAGGC
TTAACAAATGGAGCTTTCTGTATATAAATGTGGAGATTAGAGTTAATCTCCCAATCACATAATTTGTTTTGTGT
GAAAAAGGAATAAATTGTTCCATGCTGGTGGAAAGATAGAGATTGTTTTTAGAGGTTGGTTGTTGTGTTTTAGGA
TTCTGTCCATTTTCTGTAAAGGGATAAACACGGACGTGTGCGAAATATGTTTGTAAGTGATTTGCCATTGTTG
AAAGCGTATTTAATGATAGAATACTATCGAGCCAACATGTACTGACATGGAAAGATGTCAGAGATATGTTAAGTG
TAAAATGCAAGTGGCGGGACACTATGTATAGTCTGAGCCAGATCAAAGTATGTATGTTGTTAATATGCATAGAAC
GAGAGATTTGGAAAGATATACACCAAACCTGTTAAATGTGGTTTCTCTTCGGGGAGGGGGGGATTGGGGGAGGGGC
CCCAGAGGGGTTTTAGAGGGGCCTTTTCACTTTCGACTTTTTTCATTTTGTCTGTTTCGGATTTTTTATAAGTAT
GTAGACCCCGAAGGGTTTTATGGGAACTAACATCAGTAACCTAACCCCGTGACTATCCTGTGCTCTTCCTAGGG
AGCTGTGTTGTTTCCACCCACCACCTTCCCTCTGAACAAATGCCTGAGTGCTGGGGCACTTTG

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FIGURE 1160

MTFNSFEGSKTCVPADINKEEEFVEEFNRLKTFANFPPSGSPVSASTLARAGFLYTGEEDTVRCFSCHAAVDRWQY
GDSAVGRHRKVSPNCRFINGFYLENSATQSTNSGIQNGQYKVENYLGSRDHFALDRPSETHADYLLRTGQVVDIS
DTIYPRNPAMYCEEARKSFQNWPDYAHLTPRELASAGLYYTGIGDQVQCFCGGLKNWEPCDRAWSEHRRHFP
NCFVLGRNLNIRSESDAVSSDRNFPNSTNLPRNPSMADYEARIFTFGTWIYSVNKEQLARAGFYALGEGDKVKC
FHCGGGLTDWKPSSEDPWEQHAKWYPGCKYLLEQKGQYINNHLTHSLEECLVRTTEKTPSLTRRIDDTIFQNPM
VQEAIMGF SFKDIKKIMEEKIQISGSNYKSLEVLVADLVNAQKDSMQDESSQTSLOKEISTEEQLRRLQEEKLC
KICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITFKQKIFMS

1307/2825
FIGURE 1161

GGCGGCGGCGACGCTGCCTCCTCACCGGCGCAGGCTAGGAGGGGGCGGCCTGAGTGCCGTAGCCGAGCCGGGGGCT
GGAGCGCGCGGTCTGACCTACGAGAAAC**ATGG**CAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCT
GGTGGTGGTGGGGGATGGGGGTGTGGGCAAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGA
CTATGACCCCCACCATTTGAAGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGGCCATCTTGGACGTTCT
GGACACAGCTGGGCAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCCTCATCGT
CTACTCCGTCAC TGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAG
GGAGTCATTCCCGATGATCCTCGTGGCCAACAAGGTTCGATTTGATGCAC TTGAGGAAGATCACCAGGGAGCAAGG
AAAAGAAATGGCGACCAAACACAATATTCCGTACATAGAAACCAAGTGCCAAGGACCCACCTCTCAATGTCGACAA
AGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAAGCCAGAAGAAGAAGAAAACCAA
ATGGCGGGGAGACCGGGCCACAGGCACCCACAACTGCAATGTGTGATCTT**GTGA**CAGGCCTGAAGGCCTCGGGC
ACAGTGACGGTGGCCTGGCCAGCCCTCGGGACCCCTCCCCACCTAACTGCACTGAAACCATTCTAACCACAACC
CTTGGCCCAAGGACTTGGTACAGGAAGGGAGAAGGGCAGGTGGGCAGGGAGCAAGACAGGGTCTGGCTTTTGCCA
AGAGGAACGGGGCTTTTTCCACCTTCTTCAAAAGAGACAAGGGAAGGCCACCTGTTAAAGCAGGAAGCAGCATCA
AGTTGCCCCTTGGGCCCCCCCCATGTTGTTTGGATTTCAAACCGGGTTTCCTTCCCCCTTCTTTTCGGGTGGGTG
TTGTTGGTTATTGGTTAACTACATATGGTT

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FIGURE 1162

MATSAVPSDNLPTYKLVVVGDDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAGQEEFS
AMREQYMRTGDGFLIVYSVTDKASFVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQGKEMATKHNI
PYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL

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FIGURE 1163

GGTCGACGACGTGGCAGCCGGGATGCACTAGGCCAAAGCCAGCTGGGCTCCTGAGTCCGGTGGGTACTTGGAGAAC
TTACTACGTCTAGCTGGAGGATTGTAAATGTACCAATCAGCATGCTGTGTCTAGCTCAAGAACTCAAGCTCCATG
AGGAGATGTTTCATTGTGCGAGAGCAGTCATGATGGCCTGCACTCCACACAATGCAACAGAGTGAAAGAGCAGGTT
CTGCTTCTTTGGTGTAGTCCTGAAGCTTCCTAAGAACTTCACATCAGGTGATGGATAGGAGCAACCCTGTAAAA
CCAGCCTTAGACTATTTTTTAAACAGGCTGGTGAATTACCAGATCTCCGTCAAGTGCAGTAACCAGTTCAAGTTG
GAAGTGTGTCTTTTGAATGCAGAAAACAAAGTCGTGGACAACCAGGCTGGGACCCAGGGCCAGCTGAAGGTGCTG
GGTGCCAACCTCTGGTGGCCGTACCTGATGCACGAACACCCCGCCTACCTCTACTCGTGGGAGGATGGTGATTGC
TCACACCAAAGCCTTGGACCCCTCCAGCCTGTGACCTTTGTGACCAACTCCACCTACGCAGCAGACAAGGGGGC
TCTGTATGTGGATGTGATCCGTGTGAACAGCTACTACTCTTGGTATCGCAACTACGGGCACCTGGAGTTGATTCA
GCTGCAGCTGGCCGCCAGTTTGAGAAATTGGTGTAAAGACATCACAATCCCATTATTAGAGCGCGTATGGAGTGG
AAACGCTTGTAGGGTTTCACCAGTCTTTCCCAGGGAACCTCCGATGAAGTGTTCACAACAAAATGAGCGAGTGAACC
AAGAAGAGGATGACATTAGATCCAGGAGATACAACAGAGGAGATAATCTCCAGGATGCCTGTGAAGAAAGATCCC
TGGATCCCAGGATGATTATAGGACAAGTTGTTTCATAATCCAGCAGGCCAGAAGACTTCCAGGGAAACTCATTCAA
GGAGGTGAAAATGATGGATGACTCCTCCAAGATGAAAATGGACCAGCCGCAGTGCTCACGCCTGTAATACCAGCA
CTTTGGGAGGCTGAGGCAGGCGGATCACTTGAGGTCAGGAGTTTGAAACTAGCCTGGCCAACGTGGCAAAACTCC
ATCTCTATTAAAAATACAAAATTAGCCAGGCATAGTGGTGCATGCCTGTAGTCCCAGCTACTTGGGATGCCGAG
GCAGGAAGAATTGCTTGAACCTGGGAGGCAGAGTCTGCAGTGAGCCGAGATCATGCCACTGCACTCCAGCCTGGG
TGACAGAGCCACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1164

MDRSNPVKPALDYFLNRLVNYQISVKCSNQFKLEVCLLNAENKVVDNQAGTQGQLKVLGANLWWPYLMHEHPAYL
YSWEDGDGCSHQSLGFLPACDLCDQLHLRSRQGGSVCGCDPCEQLLLLVSQLRAPGVDSAAAGRPV

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FIGURE 1165

ACAGACAGAAACGAGGGGAAGAGAGAGAAATTGGGGACCCTGAAGAAAGGGGGCCAGCAGCAGGTAGGTGCCATCA
GGGACAAGAACAGCACCTCCCAGGGTGGGAGACCCAGGCCTTTCTGGCAGCAGGTCTGGATGGAAAGTGGACAG
GAGGCTCACCCGTCTGCATCCCCTGCTCCTGCCCCTGCTCGGCTACAAAAACCAAAGGGACAGCAGCTGACCACA
CCCCGGTAGCCACTCCTGCATAAAGCTCTCCCCTCCTGTGACCAGCTGAGGACCTCAGGCTGCAGCGGAGCCATG

CCCAGATACACGGTGCACGTACGTGGGGAATGGCTGGCAGTGCCCTGCCAGGACGCGCAGCTCACTGTGGGCTGG
CTGGGCCGGGAGGCCGTGAGGCGCTATATCAAGAATAAGCCCGACAAATGGTGGCTTCACCTCCGTGGATGACCGG
CACTTTCCTTGTGCGCCGGTGCAAGGGCCTGGGCCTGCTGGACAACGAGGACCGGCTCGAGGTGGCCCTAGAGAAC
AACGAGTTCGTGGAAGTGGTTATAGAGGGTGATGCCATGTCTCCTGACTTCATTCCATCTCAACCAGAAGGAGTT
TATCTATACAGCAAGTACCGGGAGCCTGAAAAGTACATCGAGTTAGATGGAGACCGTCTGACCACGGAGGATCTG
GTCAACTTGGGAAAGGGACGCTACAAAATAAAGCTCACCCCAACAGCTGAGAAGAGGGTGACAGAAATCCAGGGAG
GTCATAGATAGCATCATAAAGAGAAAACAGTTGTTTACGGTATTACTACAGGTTTTGGGAAATTTGCCAGAACT
GTAATTCCTATCAATAAGCTACAGGAGCTTCAGGTCAACTTAGTACGCTCACATTCTTCAGGTGTTGGGAAACCA
CTAAGTCTTGAGAGGTGTCGGATGCTCTTGGCTTTAAGGATCAATGTCTTAGCCAAAGGATACAGTGGCATTTC
CTGGAGACCCCTCAAACAAGTCATAGAAATGTTTAATGCCTCCTGCCTGCCCTATGTCCCAGAGAAAGGAACCGTT
GGTGCCAGTGGAGACCTTGCCCCACTCTCTCATCTTGCTCTTGGGCTAGTTGGAGAAGGGAAGATGTGGTCTCCG
AAGAGTGGCTGGGCTGATGCTAAATACGTGCTAGAAGCCCATGGATTGAAACCAGTTATTTTAAACCAAAAGAG
GGCCTGGCACTCATCAATGGGACGCAGATGATCACATCCCTGGGCTGTGAAGCTGTAGAGCGAGCCAGTGCTATT
GCACGGCAGGCTGACATTGTGGCAGCCCTGACCCTTGAGGTGCTGAAGGGCACCACAAAGCCTTTGACACTGAC
ATTCTATGCTCTTCGACCTCACCGTGGGCAAATTGAAGTTGCTTTTCGGTTTCGGTCACTCTTGGACTCAGATCAC
CACCCATCAGAAATAGCAGAGAGTACAGGTTCTGTGATCGCGTCCAGGATGCATACACCTTGCGCTGCTGTCCA
CAGGTCCATGGTGTGGTGAATGATACAATAGCATTTGTGAAGAACATCATTACCACAGAACTGAACAGCGCAACA
GATAATCCTATGGTCTTTGCCAATAGGGGAGAGACAGTTTCTGGAGGAACTTCCATGGTGAATACCCAGCCAAA
GCCCTAGACTACTTGGCCATTGGCATCCATGAACCTTGCTGCAATCAGTGAGAGAAGAATCGAGCGGCTCTGCAAT
CCCTCCCTCAGTGAGCTGCCTGCCTTCCTGGTGGCTGAAGGTGGTCTGAACTCTGGGTTTCATGATAGCTCACTGC
ACGGCAGCAGCCCTTGTTTTCTGAGAACAAGGCTCTGTGCCATCCCTCGTCTGTTGACTCCCTCTCCACCAGCGCA
GCCACGGAGGACCACGTCTCCATGGGAGGATGGGCAGCAAGGAAAGCCCTCAGGGTCATCGAGCATGTGGAGCAA
GTGCTGGCCATCGAGCTCCTTGACGCTGCGCTCTGTTGTAAGGCCCTGGATAAAAGATCGCTTCATGGCCCCGGACATCGAG
GCAGCCACAGGCTGCTCCTGGAGCAGAAGGTTTGGGAAGTAGCTGCTCCATACATTGAAAAATACAGAATGGAG
CATATTCCAGAATCAAGACCTCTTTCTCCAACAGCCTTTTCACTGCAATTTCTGCACAAGAAATCCACCAAAATC
CCGGAGTCTGAGGACCTTTTAATGGGCTTTGTCATGAAGTAGCAGATGAGAGGGCAGTCAGTTTAGCACAAAGCAA
TACTAGGCTGAAGGAGAGACCTGAGAACTTTCCTAGGTAGATCAATCCATTGTATCATTACAGTTCTTCTAAAGCC
CACCAGGTATTTTCAGATTATAAACTTTTCTTCTTTCTTAACAGTTTCAACAGGCCACTCACTCTTAAGGGTG
AGAAGAATAACCACAATTGTATGTGCCTGTTTTTACTCTTAGCATTAGATGAATTCAAATTTGGAAACAGATTG
ATAGCAATTTTTTCTAAAAACATTAGACTTTTGTTAACCTTTTTTTTTTTTTTAAATTTGCTTCAACAAGCTCT
CCACCAGTTGACTTTCTTTGGCTAATTTTACTTTGCATGATATGCCTTAATATGCCTTCATAAATAACCATTTTA
AGTCATAATTTGTCCTTAAGCTGCTTTTTTCTTCTATTAATTGGATCATAGTAAAGAGTAGTCAATAGGGTCTTC
AGCTATTAATTGTAGAGGTGATTAACCAACAAGGAGTTTCATGTGCAAAGGAGATAAGGAATGAATATAAAGA
TTGCTATTTGGGTGGCTCTTATTAACTGTGTATTTTGTACTTATCACTACACGTATCCCCCAAATGCTTACATG
GGAGTTTGAGGTAGTATTTTCACTTCCTTGGTGTAGTACTCTATTACATTCTTATTGTAACCTTCCTCATT
CACAGATAAGGAATCTTTGGGGATTAACCAACCTCCTTTCTGTAATGGTAATCATTAAATAAG

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FIGURE 1166

MPRYTVHVRGEWLAVPCQDAQLTVGWLGREAVRRYIKNKPDNGGFTSVDDAHFLVRRCKGLGLLDNEDRLEVALE
NNEFVEVVIEGDAMSPDFIPSQPEGVYLYSKYREPEKYIELDGDRLTTEDLVNLGKGRYKIKLTPTAEKRVQKSR
EVIDSIIKEKTVVYGITTFGFGKFARTVIPINKLQELQVNLVRSHSSGVGKPLSPERCRLMLALRINVLAKGYSGI
SLETLKQVIEMFNASCLPYVPEKGTVGASGDLAPLSHLALGLVGEKGMWSPKSGWADAKYVLEAHGLKPVILKPK
EGLALINGTQMITSLGCEAVERASAIARQADIVAALTLEVLKGTTKAFDTDIHALRPHRGQIEVAFRFRSLDSD
HHPSEIAESHRFCDRVQDAYTLRCCPQVHGVVNDTIAFVKNIITTELNSATDNPMVFANRGETVSGGNFHHGEYPA
KALDYLAIGIHELAAISERRIERLCNPSLSELP AFLVAEGGLNSGFMIAHCTAAALVSENKALCHPSSVDSLSTS
AATEDHVMGGWAARKALRVIEHVEQVLAIELLAACQGIEFLRPLKTTTPLEKVYDLVRSVVRPWIKDRFMAPDI
EAAHRLILLEQKVWEVAAPYIEKYRMEHIPESRPLSPTAFSLQFLHKKSTKIPESDL

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FIGURE 1167

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCTGAGCTTCGCAATTCCTGTGTCGCCTTCTGGGCTCCCAGCCTGC
CGGGTCGCATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCCAGAAAGGATACAGCTGGAGTCAGTTTACT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGCGGTACCGGCGG
GCATTCAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGATACTTTT
GTGGAACCTCTATGGGAACAATGCAGCAGCCGAGAGCCGAAAGGGCCAGGAACGTTCAACCGCTGGTTCTTGACG
GGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCACTCTTCAGTCGGAAATGACCAGACACTGACCATCCACTC
TACCCTCCCACCCCTTCTCTGCTCCACCACATCCTCCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATG
CAGCCCATGCCCACCTGCCCATCACAGGGTTGGGCCCAGATCTGGTCCCTTGACGCTAGTTTTCTAGAATTTATC
ACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTGGCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAA
GGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGGGCAGGAGGGCCCTACCTGATTGGTGCAACCCTTACCCT
TAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTTGAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGA
TTGCCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGATCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTC
CTTTCCTTCCATCCCTACCCCCTAAGAGCCATTTAGGGGCCACTTTTACTAGGGATTTCAGGCTGCTTGGGATAA
AGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGACTGGCTAGAGTCCTCACTCCCAGTCCAAATGTCTCCAG
AAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGGAGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCT
AGGGTGGCCCTTGAGTTTCAGCACACCCTAGTCCCTTCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAA
CTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGGCCTCAGCTGCCTCACTTCTTACAAGAGCAGCCTGTGGCA
TCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGGGGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAG
CTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAGGAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTA
GGGCTGACTAGAAAGGGCCAGTCTGCTGGCCAGGCAGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGG
CTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTCAGGCCTCCCTCTCTTCTGCTCCACCCTTGGCCTGTCT
CATCCCCAGGGTCCCAGCCACCCCGGGCTCTCTGCTGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGAT
GATATACTATTTTTGTTAAGCGTGTCTGTATTTATGTGTGAGGAGCTGCTGGCTTGAGTGCGCGTGCACGTGGA
GAGCTGGTGGCCGGAGATTGGACGGCCTGATGCTCCCTCCCTGCCCTGGTCCAGGGAAGCTGGCCCGAGGGTCT
GGCTCCTGAGGGGCATCTGCCCCTCCCCCAACCCCAACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTG
AAGGTGAAAGTGCAGTTTCAGTAATAAACTGTGTTTACTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1168

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGGWDTFVELYGNNAAAESRKGQERFNRFNLTGMTVAGVVL
LGSLSFRK

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FIGURE 1169

CGCAAGAATGCATACAAACTCCAGGGCTGCTCTCTCTCTGGAGAGGGAGGGAGGGGATTAAAAACCTGCAGCAAC
ATGGGGGAGGAGGCTGTTTGTCTCTCTCTCTCTGGGGAAGTAAGTAACTCGCTCAAAGTGCCTTCCTTGCTGAGCTGCT
TCGCGTAGCTTTTGGAGGAAGTCTAGTGAAATTGGTCTTTCCATTACATCTGGATGTACTACCAGAGAGTTCTGCT
GCTGTTGTTTTTTTTTAGCTTTTCTTTCTTTGAGTCTTTAAAGGGCAATTGTGACACTCTGCAAACATACCGATT
TGTTGTCTGCCCACCTTGGAGTCTTCAATCTGGGCAGTAACATTTACCCTTTTTCTGCTAGCCTGTCCCCCTC
TCTGGATTGAAGTCACCTGCTAAGACAATGGACTACCGACCAGACTCCCGGAAATCATGTTGGTAGGATCCCAGT
CTTTTTCGCCTGGAGGGCCCAATGGGATCATTAGAAGCCAGTCCTTTGCGGGTTTCAGCGGCCTCCAGGAAAGGC
GATCCAGGTGTAACCTCTTCAATTGAAAATTCCTCCGCTCTCAAGAAGCCTCAGGCCAAACTGAAGAAAATGCACA
ATTTAGGCCACAAAAACAATCCCCCAAGAGCCTCAGCCTAAAAGGGTGGAAGAAGTCTACAGGGCCTTGA
AAAATGGACTTGATGAATATCTGGAGGTTACCAGACGGAGCTGGACAAGTTGACAGCTCAGTTAAAAGATATGA
AAAGAACTCTCGCCTGGGTGTACTGTATGACCTAGACAAGCAAATTAACAATTGAAAGATACATGAGACGCC
TGGAGTTTCATATAAGTAAGGTAGATGAAGTCTATGAAGCTTATTGTATCCAGCGACGCCTCCAGGATGGTGCCA
GCAAAATGAAGCAAGCCTTCGCAACATCCCCTGCCAGCAAAGCTGCCCGGAGAGTCTGACAGAGATCAATCGGA
GCTTCAAGGAGTACACAGAGAATATGTGCACCATTTGAAGTGGAGCTAGAGAATCTGCTGGGAGAATTCTCCATCA
AGATGAAAGGTCTGGCTGGCTTTGCACGCCTCTGTCTGGAGATCAATATGAAATTTTCATGAAGTATGGCCGGC
AGCGGTGGAAGTGAAGGGCAAATAGAAGTAAATGGCAAGCAGAGCTGGGATGGAGAAGAAACAGTTTTTCTGC
CCCTGATAGTTGGGTTCATCTCCATCAAGGTACGGAGCTCAAAGGGCTAGCAACTCACATCCTGGTAGGTAGCG
TGACCTGTGAGACCAAAGAGCTGTTTGACGCCGACCTCAGGTAGTGGCTGTGACATCAATGACCTTGGTACCA
TCAAAGTGAACCTGGAAATCACCTGGTATCCATTTGACGTGGAGGACATGACCGCATCCTCAGGCGCTGGGAACA
AGGCAGCAGCCCTTCAGAGGAGAATGTCCATGTACAGCCAGGGTACCCCGGAAACGCCACCTTCAAAGACCACT
CCTTCTTTTCAAATCTACCTGATGACATCTTTGAAAATGGAAAAGGCAGCCGAGGAGAAAATGCCACTGTGCTCA
GCTTCAGTGACCTGCCCAACGGGGACTGCGCCCTCACCTCCCCTCAACAGGCTCCCCTTCCAAGTCAACAAATC
CAGAAATTACCATCACCCCTGCGGAGTTTAACTCAGCAGCTTGGCCTCCAGAATGAGGGTATGGATGACACCA
GCTCAGCATCTTCCAGGAAGTCCCTGGGAGAAGGCCAAGAGCCAAAGTCACACCTGAAGGAGGAAGACCCAGAGG
AGCCCGAGAAAACCTGCCTCGGCCCATCTGAGGCTTGCCGCCGACAGTCCTCAGGTGCTGGGGCTGAGCACCTGT
TCCTTGAGAATGATGTTGCAGAAGCACTTCTGCAAGAGTCTGAGGAGGCCTCTGAGCTCAAGCCTGTGGAAGTGG
ACACTTCGGAAGGAAACATCACAAGCAGCTGGTCAAGAGGCTCACATCTGCAGAGGTGCAATGGCCACAGACA
GGCTGCTCTCTGAGGGTTCTGTTGGTGGAGAATCTGAAGGCTGCAGATCCTTTCTAGATGGAAGCTTAGAGGATG
CTTTTAATGGGCTTTTACTTGCATTAGAACACATAAAGAGCAGTATAAAGAGTTTCAGGATCTGAACCAAGAAG
TCATGAATTTGGATGATATTCTAAAAAAGTAGAGAAGATCCTCTAATGGATCCCAGTGTGCCATCCCTCAACCT
CCTCAGTGATCAACTCATGGCCAATCTTGTTTCCTATTCTTCAACCTGCTGACTTCCCTCTGGATTCTTCTGCAA
CCAGTCCCAGATATTGTGCCATTTTATCCATGGTTGTACTTCTTTTTTGATATAAAGATTTTAAATGCATTTT
TTAAATGCTAACAAAAAATAAAAACTTGAAACAAAAA

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FIGURE 1170

MLVGSQSFSPPGGPNGIIRSQSFAGFSGLQERRSRCNSFIENSSALKKPQAKLKKMHNLGHKNNNPPKEPQPKRVE
EVYRALKNGLDEYLEVHQTELDKLTAKLQKDMKRNSRLGVLYDLQIKTIERYMRRLEFHISKVDELYEAYCIQR
RLQDGASKMKQAFATSPASKAARESLTEINRSFKEYTENMCTIEVELENLLGEFSIKMKGLAGFARLCPGDQYEI
FMKYGRQRWKLKGKIEVNGKQSWDGEETVFLPLIVGFISIKVTELKGLATHILVGSVTCETKELFAARPQVVAVD
INDLGTIKLNLEITWYPFDVEDMTASSGAGNKAALQRRMSMYSQGTPETPTFKDHSFFSNLPDDIFENGKAAEE
KMPLSLSFSDLPNGDCALTSHSTGSPSNSTNPEITITPAEFNLSSLASQNEGMDDTSSASSRNSLGEGQEPKSHL
KEEDPEEPRKPPASAPSEACRRQSSGAGAEHLFLENDVAEALLQESEEASELKPVELDTSEGNITKQLVKRLTSAE
VPMATDRLLSEGSVGGEGCRSFLDGSLEDAFNGLLLALEPHKEQYKEFQDLNQEVNMLDDILKK

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FIGURE 1171A

ATACGGGAGAACTAAGGCTGAAACCTCGGAGGAACAACCACTTTTGAAGTGACTTCGCGGCGTGCGTTGGGTGCG
GACTAGGTGGCCCCGGCGGGAGTGTGCTGGAGCCTGAAGTCCACGCGCGCGGCTGAGAACCGCCGGGACCGCACG
TGGGCGCCGCGCGCTTCCCCCGCTTCCAGGTGGGCGCCGGCCGAGGCCACCTCACGTCCGGCCCCGGGGATG

CGCGTCCTCCTCGCCGCGCTGGGACTGCTGTTCTGGGGGCGCTACGAGCCTTCCCACAGGATCGACCCCTTCGAG
GACACCTGTTCATGGAAACCCACAGCCACTACTATGACAAGGCTGTCAGGAGGTGCTGTTACCGCTGCCCATGGGG
CTGTTCCCCGACACAGCAGTGGCCACAGAGGCCTACTGACTGCAGGAAGCAGTGTGAGCCTGACTACTACCTGGAT
GAGGCCGACCGCTGTACAGCCTGCGTGACTTGTTCTCGAGATGACCTCGTGGAGAAGACGCCGTGTGCATGGAAC
TCCTCCCGTGTCTGCGAATGTCGACCCGGCATGTTCTGTTCCACGTCTGCCGTCAACTCCTGTGCCGCTGCTTC
TTCCATTCTGTCTGTCCGGCAGGGATGATTGTCAAGTTCCCAGGCACGGCGCAGAAGAACACGGTCTGTGAGCCG
GCTTCCCCAGGGGTGAGCCCTGCCTGTGCCAGCCCAGAGAACTGCAAGGAACCCTCCAGTGGCACCATCCCCAG
GCCAAGCCACCCCGGTGTCCCCAGCAACCTCCAGTGCCAGCACCATGCCTGTAAGAGGGGGCACCCGCTCGCC
CAGGAAGCTGCTTCTAACTGACGAGGGCTCCCGACTCTCCCTCCTCTGTGGGAAGGCCTAGTTCAGATCCAGGT
CTGTCCCCAACACAGCCATGCCAGAGGGGTCTGGTGATTGCAGAAAGCAGTGTGAGCCCGACTACTACCTGGAC
GAGGCCGGCCGTGCACAGCCTGCGTGAGCTGTTCTCGAGATGACCTTGTGGAGAAGACGCCATGTGCATGGAAC
TCCTCCCGCACCTGCGAATGTCGACCTGGCATGATCTGTGCCACATCAGCCACCAACTCCTGTGCCGCTGTGTC
CCCTACCCAATCTGTGCAGCAGAGACGGTCACCAAGCCCCAGGATATGGCTGAGAAGGACACCACCTTTGAGGCG
CCACCCCTGGGGACCCAGCCGACTGCAACCCACCCAGAGAATGGCGAGGCGCCTGCCAGCACCAGCCCCACT
CAGAGCTTGCTGGTGGACTCCAGGCCAGTAAGACGCTGCCCATCCCAACCAGCGCTCCCGTCGCTCTCTCTCTCC
ACGGGGAAGCCCGTTCTGGATGCAGGGCCAGTGCTCTTCTGGGTGATCCTGGTGTGGTTGTGGTGGTGGCTCC
AGCGCCTTCTCTCTGTGCCACCGAGGGCCTGCAGGAAGCGAATTCCGGCAGAAGCTCCACCTGTGCTACCCGGTC
CAGACCTCCCAGCCCAAGCTAGAGCTTGTGGATTCCAGACCCAGGAGGAGCTCAACGCAGCTGAGGAGTGGTGCG
TCGGTGACAGAACCCTCGCGGAAGAGCGAGGGTTAATGAGCCAGCCACTGATGGAGACCTGCCACAGCGTGGGG
GCAGCCTACCTGGAGAGCCTGCCGCTGCAGGATGCCAGCCCGGCCGGGGGCCCTCGTCCCCAGGGACCTTCTCT
GAGCCCCGGGTGTCCACGGAGCACACCAATAACAAGATTGAGAAAATCTACATCATGAAGGCTGACACCGTGATC
GTGGGGACCGTGAAGGCTGAGCTGCCGGAGGGCCGGGGCCTGGCGGGGCCAGCAGAGCCCGAGTTGGAGGAGGAG
CTGGAGGCGGACCATAACCCCCACTACCCCGAGCAGGAGACAGAACCCTCTGGGCAGCTGCAGCGATGTCATG
CTCTCAGTGAAGAGGAAGGGAAGAAGACCCCTTGCCACAGCTGCCTCTGGAAAGTGAGGCCTGGGCTGGGCT
GGGGCTAGGAGGGCAGCAGGGTGGCCTCTGGGAGGCCAGGATGGCACTGTTGGCACCGAGGTTGGGGGCAGAGGC
CCATCTGGCCTGAACTGAGGCTCCAGCATCTAGTGGTGGACCGCCGCTCACTGCAGGGGTCTGGTGGTCTCTGC
TTGCATCCCCAACTTAGCTGTCCCTGACCCAGAGCCTAGGGGATCCGGGGCTTGTAAGAAGAGACAGTCCAAG
GGGACTGGATCCAGCAGTGATGTTGGTTGAGGCAGCAAACAGATGGCAGGATGGGCACTGCCGAGAACAGCAT
GGTCCCAGAGCCCTGGGCATCAGACCTTAACCACAGGCCACAGCCAGCGAGGGAGAGGTCTGTGAGGCCAGCT
CCCGGGGCCCTGTAAACCTACTCTCTCTCTCTCTCTGACCTCAGAGGTGACACCCATTGGGCCCTTCCGGCATG
CCCCAGTTACTGTAAATGTGGCCCCAGTGGGCATGGAGCCAGTGCTGTGGTTGTTTCTCCAGAGTCAAAAGG
GAAGTCGAGGGATGGGGCGTCGTAGCTGGCACTGTCTCTGCTGCAGCGGCCACACTGTACTCTGCACTGGTGTG
AGGGCCCTGCCTGGACTGTGGGACCCTCCTGGTGTGCTGCCACCTTCCCTGTCTGTAGCCCCCTCGGTGGGGCC
AGGGCCTAGGGGGCCAGGATCAAGTCACTCATCTCAGAATGTCCCCACCAATCCCGGCCACAGCAGGCGCCTCGG
GTCCAGATGTCTGCAGCCCTCAGCAGCTGCAGACCGCCCCCACCACCCAGAGAACCTGCTTTACTTTGCCCA
GGGACTTCTCTCCCCATGTGAACATGGGGAACCTCGGGCCCTGCCTGGAGTCCTTGACCGCTCTCTGTGGGGCCCCA
CCCACTCTGTCTCTGGGAAATGAAGAAGCATCTTCTTAGGTCTGCCCTGCTTGCAAATCCACTAGCACCGACCCC
ACCACCTGGTTCCGGCTCTGCACGCTTTGGGGTGTGGATGTGAGAGGCACCACGGCCTCACCCAGGCATCTGCT
TTACTCTGGACCATAGGAAACAAGACCGTTTGGAGGTTTCATCAGGATTTTGGGTTTTTACATTTACGCTAAG
GAGTAGTGCCCTGACTTCCGGTTCGGCTGGCCAGCTGACTCCCTAGGGCCTTCAGACGTGTATGCAAATGAGTGA
TGGATAAGGATGAGTCTTGGAGTTGCGGGCAGCCTGGAGACTCGTGGACTTACCGCCTGGAGGCAGGCCCCGGGA
GGCTGCTGTTTACTCATCGGGCAGCCACGTGCTCTCTGGAGGAAGTGATAGTTTCTGAAACCGCTCAGATGTTTT
GGGGAAGTTGGAGAAGCCGTGGCCTTGCGAGAGGTGGTTACACCAGAACCTGGACATTGGCCAGAAGAAGCTTA
AGTGGGCAGACACTGTTTGGCCAGTGTGTGCAAGGATGGAGTGGGTGTCTCTGCATACCCACAGCCGACGCT
GTAAGGCACGCTGGAAGGCACACGCTGCCAGGCAGGGCAGTCTGGCGCCCATGATGGGAGGGATTGACATGTTT

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FIGURE 1171B

CAACAAAATAATGCACTTCCTTAAAAAAAAA

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FIGURE 1172

MRVLLAALGLLFLGALRAFPQDRPFEDTCHGNPSHYDDKAVRRCCYRCPMGLFPTQQCPQRPTDCRKQCEPDYYL
DEADRCTACVTCSRDDLVEKTPCAWNSSRVCECRPGMFCSTSAVNSCARCFHSHVCPAGMIVKFPGTAQKNTVCE
PASPGVSPACASPENCKEPSSGTIPQAKPTPVSPATSSASTMPVRGGTRLAQEAASKLTRAPDSPSSVGRPSSDP
GLSPTQPCPEGSGDCRKQCEPDYYLDEAGRCTACVSCSRDDLVEKTPCAWNSSRTCECRPGMICATSATNSCARC
VPYPICAAETVTKPQDMAEKDITFEAPPLGTQPD CNPTPENGEAPASTSPTQSLLVDSQASKTLPIPT SAPVALS
STGKPVLDAGPVLFWVILVLVVVGSSAFLLCHRRACRKRIKQLHLCLYPVQTSQPKLELVDSRPRRSSTQLRSG
ASVTEPVAEERGLMSQPLMETCHSVGAAYLESPLQDASPAGGPSSPRDLPEPRVSTEHTNNKIEKIYIMKADTV
IVGTVKAELPEGRGLAGPAEPELEEELEADHTPHYPEQETEPPLGSCSDVMLSVEEEGKEDPLPTAASGK

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FIGURE 1173

CCAGTCTGCGGACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGAC
CCGTGCGAAACCCCTTCATCCAGCCTTTCTCTGGCGCATGGGAGAACCTGGGGGTCGGCGAAGGGGCAGAGGCTTGC
AGCAGGTTGAGTCGCTCTCGCGGCCGCCACAGCATGACCAGAGCCCCGAAGCACCTGTGGCGGCAACCCCGGCGC
CCCATCCGCATCCAACAGCGCTTCTATTTCGGATCCGGACAAGTCCGCGGGCTGCCGCGAGAGGGACCTGAGCCCCG
CGGCCGGAGCTCAGGAAGTCGCGGCTCTCCTGGCCCGTTTCTCCTGCAGGCGCTTTGACCTGGAAAATGGGGCTC
TCGTGTGGGAGGAGGGCCCTGGACCCTCAGTCCAGCCCTGGCCTGGGCGGATTATGCAGGCTCCAGTCCCGCAC
AGCCAGCGGCGGAGTCCTTCTGTACCGCTCAGATAGCGACTATGAACCTCTCGCCCAAGGCCATGTCTCGGAAC
TCCTCTGTGGCCAGCGACCTACATGGAGAGGACATGATTGTGACGCCCTTTGCCCAGGTCTTGCCAGTCTGCGG
ACCGTTTCGGAGCAACGTGGCGGCCCTTGCCCGCCAGCAATGCCTAGGAGCAGCCAAGCAGGGACCCGTCGGAAAC
CCTTCATCCAGCAATCAGCTCCCTCCTGCAGAGGACACGGGGCAGAAGCTGGCATTGGAGACGCTAGACGAGCTG
GACTGGTGCCTGGATCAGTTGGAGACGCTGCAGACCCGGCACTCGGTGGGGGAGATGGCCTCCAACAAGTTCAAG
CGGATCCTGAACCGGGAGTTGACCCACCTGTCCGAAACCAGCCGCTCCGGGAACCAGGTGTCCGAGTACATCTCC
CGGACCTTCTGGACCAGCAGACCGAGGTGGAGCTGCCCAAGGTGACCGCTGAGGAGGCCCCACAGCCCATGTCC
CGGATCAGTGGCCTACATGGGCTCTGCCACAGTGCCAGCCTCTCCTCAGCCACTGTCCACGCTTTGGGGTCCAG
ACTGACCAGGAGGAGCAACTGGCCAAGGAGCTAGAAGACACCAACAAGTGGGGACTTGATGTGTTCAAGGTGGCG
GACGTAAGTGGGAACCGGCCCTCACAGCTATCATATTTCAGCATTTTTTCAGGAGCGGGACCTGTGAAGACATTC
CAGATCCCAGCAGACACACTGGCCACCTACCTGCTGATGCTGGAGGGTCACTACCACGCCAATGTGGCCTACCAC
AACAGCCTACATGCCGCCGACGTGGCCAGTCCACGCATGTGCTGCTGGCTACGCCCCGCCCTCGAGGCTGTGTTT
ACAGACTTGGAATCCTGGCTGCCCTCTTTGCAAGCGCCATCCACGACGTGGACCATCCTGGGGTCTCCAACCAG
TTTTCTGATTAACACCAACTCAGACGTGGCGCTTATGTACAACGACGCCCTCGGTGCTGGAGAACCATCACCTGGCT
GTGGGCTTCAAGCTGCTGCAGGCAGAGAAGTGCATATCTTCCAGAACCCTCAGCGCCAAGCAGCGACTGAGTCTG
CGCAGGATGGTCATTGACATGGTGTGCTGGCCACAGACATGTCCAAACACATGAACCTCCTGGCCGACCTCAAGACC
ATGGTGGAGACCAAGAAGGTGACAAGCCTCGGTGTCTCCTCCTCGGACAACCTATTCCGACCGAATCCAGGTCTTG
CAGAACCCTGGTGCATGTGCTGATCTGAGCAACCCACCAAGCCGCTGCCCTGTACCGCCAGTGGACGGACCGC
ATCATGGCCGAGTTCTTCCAGCAGGGAGACCGCGAGCGTGAGTCGGGCCTGGACATCAGTCCCATGTGTGACAAG
CATACGGCCTCAGTGGAGAAGTCCAGGTGGGTTTCAATTGACTACATTGCTCACCCACTGTGGGAGACTTGGGCT
GACCTGGTCCACCCAGATGCACAGGACCTGCTGGACACGCTGGAGGACAATCGAGAGTGGTACCAGAGCAAGATC
CCCCGAAGTCCCTCAGACCTACCAACCCCGAGCGGGACGGGCCTGACAGATTCCAGTTTGAAGTACTCTGGAG
GAGGCAGAGGAAGAGGATGAGGAGGAAGAAGAGAGGGGGGAAGAGACAGCTTTAGCCAAAGAGGCCTTGAGTTG
CCTGACACTGAACTCCTGTCCCCTGAAGCCGGCCCAGACCCTGGGGACTTACCCCTCGACAACCAGAGGACTTAG

GGCCAGCCCTGCGTGAAGTGCAGGGGCAATGGATGGTAAAGCCCTTTGGCTCTTGGCAGGCAGACTTTCCAGGAA
GAGGCTCCATGTGGCTCCTGCTTCACTTTCCACCCATTTAGGGAGACAATCAAGCTCTTAGTTATAGGTGGCTC
CCAGGGTCTAATTGGAGGCACCTGGCTGGGGTCCACTCTGACCCTAGACTTGCCTAAAAGAGCTCTCTAAGGGGC
AGCCTCTTACGATGCCCTGGTGTCTTTCTCCTGGGCTTCTATCCCTGTGAGGAGAGGTGCTGTCTGCTGGAGCCT
CTAGTCCACCCCTCTCCAGTGGTCACTCTTGAGTCACATCTGTCACTTAATTATTTCTTTCTTTATCAAATATTTA
TTGCTCATCTACTTCGGGCCAGCTTTCTGCCTCTGTAGTAGCCCTGCACAAAGGGTGGGGAGTCAGGAGACCATC
CCAAAGGCATCTCCCTGTCTTCTCTACCAAGCGGCTCTCTGCAAGAGCATGGAAATGTGAGTGGGGAAAAATTTT
CAGCACCAAGCTTCACTCATACCCAGTTTTGTCTTCTGAAACTACGGTAGGGGGCAGGAAGAGGAGCAGAAAAGA
AGGGCTGGGCAAGGCATAGTGGCTTATGCCTGTAATCCCGGTACTTTGGGAGGCTGAGGTGGGAGGACTGCTTAA
GCTCAGGAGTTTGAGACCAGCCTGGGCAACATAGCAAGACCCCCACCATCTCTGAAAAAAAAAATTAGCCAGGCA
TGGTGGTGTGCACCTGAGAATCCAGCTACTCAGAAGGTTGAGACAAAGGGGATCGCTTGAGCCCAGGAGTTGGA
GGCTGAAGAGAGCTATGACTGCATCACTGCACTCCAGCCTGGGCAACACAGCAAGATCCTGTCTAAAAATAAAAA
GAAAAGAGAAGGAAAGGAAAGAGACGGGGCTCTGAGGCCGAGCACAGTGGCCCATGCCTATAATCCAGCACTTT
GGGAGGCTGAGGCAGGTGGATCACCTGAGGTTAGGAGTTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCT
CTACTAAAAATACAAAATTGGCTGGGCATGGTGGCGGTGCCTGTAATCCAGCTACTGGGGAGGCTGAGGCAG
GAGAATCACTTGAATTCAGGAGGTGGAGGTTGCAGTGAGCCGACATCATGCCACTGCACTCCAGCCTGGGGCTGA
CAGAGCAAGACACTGTCTCAAAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1174

MENLGVGEGAEACSRLSRSRGRHSMTRAPKHLWRQPRRPIRIQQRFYSDPKSAGCRERDLSPRPELRKSRLSWP
VSSCRRFDLENGLS CGRRALDPQSSPGLGRIMQAPVPHSQRRRESFLYRSDSDYELSPKAMSRNSSVASDLHG EDM
IVTPFAQVLASLRTVRSNVAALARQQCLGAAKQGPVGNPSSSNQLPPAEDTGQKLALETLD ELDWCLDQLETLQT
RHSVGEMASNKFKRILNRELTHLSETSRSGNQVSEYISRTFLDQQTEVELPKVTAEEAPQPMSRISGLHGLCHSA
SLSSATVPRFGVQTDQEEQLAKELED TNKWGLDVFKVADVSGNRPLTAIIFSIFQERDLLKTFQIPADTLATYLL
MLEGHYHANVAYHNSLHAADVAQSTHVLLATPALEAVFTDLEILAALFASAIHDVDHPGVSNQFLINTNSDVALM
YNDASVLENHH LAVGFKLLQAENCDIFQNL SAKQRLSLRRMVIDMVLATDMSKHMNLLADLKT MVETKKVTS LGV
LLLDNYSDRIQVLQNLVHCADLSNPTKPLPLYRQWTD RIMAEFFQQGDRERESGLDISPMCDKHTASVEKSQVGF
IDYIAHPLWETWADLVHPDAQDLLDTLEDNREWYQSKIPRSPDLTNPERDGPDRFQFELTLEEAE EEEDEEEEE
GEETALAKEALELPDTELLSPEAGPDPGDLPLDNQRT

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FIGURE 1175

CTCTGTCTTGCCAGCACCGAGGGCTCATCCATCCACAGAGCAGTGCAGTGGGAGGAGACGCC**ATG**ACCTCCATCC
TCACGGTCCTGATCTGTCTCGGGCTGAGCCTGGACCCACAGGACCCACGTGCAGGCAGGGCCCCCTCCCCAAGCCCA
CCCTCTGGGCTGAGCCAGGCTCTGTGATCACCCAAGGGAGTCCTGTGACCCTCAGGTGTCAGGGGAGCCTGGAGA
CGCAGGAGTACCATCTATATAGAGAAAAGAAAACAGCACTCTGGATTACACGGATCCCACAGGAGCTTGTGAAGA
AGGGCCAGTTCCCCATCCTATCCATCACCTGGGAACATGCAGGGCGGTATTGCTGTATCTATGGCAGCCACACTG
CAGGCCTCTCAGAGAGCAGTGACCCCTGGAGCTGGTGGTGACAGGAGCCTACAGCAAACCCACCCTCTCAGCTC
TGCCAGCCCTGTGGTGACCTCAGGAGGGAATGTGACCATCCAGTGTGACTCACAGGTGGCATTTGATGGCTTCA
TTCTGTGTAAGGAAGGAGAAGATGAACACCCACAATGCCTGAACTCCCATTTCCCATGCCCGTGGGTTCATCCCGG
CCATCTTCTCCGTGGGCCCCGTGAGCCCAAGTCGCAGGTGGTCGTACAGGTGCTATGGTTATGACTCGCGCGCTC
CCTATGTGTGGTCTCTACCCAGTGATCTCCTGGGGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAG
TGCAGCCGGGTCCTGTCGTGGCCCTGGGGAGAAGCTGACCTTCCAGTGTGGCTCTGATGCCGGCTACGACAGAT
TTGTTCTGTACAAGGAGTGGGGACGTGACTTCTCCAGCGCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCCAGG
CCAACCTCACCCCTGGGCCCTGTGAGCCGCTCCTACGGGGGCCAGTACACATGCTCCGGTGCATACAACCTCTCCT
CCGAGTGGTCGGCCCCCAGCGACCCCTGGACATCCTGATCACAGGACAGATCCGTGCCAGACCCTTCCTCTCCG
TGCGGCCGGGCCCCACAGTGGCCTCAGGAGAGAACGTGACCCTGCTGTGTGTCAGTCACAGGGAGGGATGCACACTT
TCCTTTTGACCAAGGAGGGGGCAGCTGATTCCCCGCTGCGTCTAAAATCAAAGCGCCAATCTCATAAGTACCAGG
CTGAATTTCCCATGAGTCCTGTGACCTCGGCCCACGCGGGGACCTACAGGTGCTACGGCTCACTCAGCTCCAACC
CCTACCTGCTGACTCACCCAGTGACCCCTGGAGCTCGTGGTCTCAGGAGCAGCTGAGACCCTCAGCCCACCAC
AAAACAAGTCCGACTCCAAGGCTGGTGAG**TGA**GGAGATGCTTGCCGTGATGACGCTGGGCACAGAGGGTCAGGTC
CTGTCAAGAGGAGCTGGGTGTCCTGGGTGGACATTTGAAGAATTATATTCAATCCAACCTGAAGAATTATTCAAC
ACCTTTAACAATGTATATGTGAAGTACTTTATTCTTTCATATTTTAAAAATAAAAGATAATTATCCATGAA

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FIGURE 1176

MTSILTVLICLGLSLDPRTHVQAGPLPKPTLWAEPGSVITQGSPTLRCQGSLETQEYHLYREKKTALWITRIPQ
ELVKKGQFPILSITWEHAGRYCCIIYGSHTAGLSESSDPLELVVTGAYSKPTLSALPSPVVTSGGNVTIQCDSQVA
FDGFILCKEGEDEHPQCLNSHSHARGSSRAIFSVGPVSPSRRWSYRCYGYDSRAPYVWSLPSDLLGLLVPGVSKK
PSLSVQPGPVVAPGEKLTFCGSDAGYDRFVLŸKEWGRDFLQRPGRQPQAGLSQANFTLGPVSRSYGGQYTCGA
YNLSSEWSAPSDPLDILITGQIRARPFLSVRPGPTVASGENVTLLCQSQGMHTFLLTKEGAADSPLRLKSKRQS
HKYQAEFPMSPVTSAHAGTYRCYGSLSNPYLLTHPSDPLELVVSGAAETLSPPQNKSDSKAGE

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FIGURE 1177

ATGTGGTGGAGAGTTCTCAGCTTGCTGGCATGGTTCCCTTGCAAGAGGCCTCTCTGACTAACCACACAGAAACC
ATCACCGTGGAGGAAGGCCAGACGCTCACTCTAAAGTGTGTCACTTCTCTGAGGAAGAACTCCTCCCTCCAGTGG
CTGACCCCCCTCAGGGTTACCATTTTTTTTAAATGAGTATCCTGCTTTAAAAAATCCAAATACCAGCTTCTTCAT
CACTCGGCCAATCAGCTCTCCATCACTGTGCCTAACGTAACCTGCAAGATGAAGGCGTGACAAAGTGCTTACAT
TACAGCGACTCTGTAAGCACAAAGGAAGTGAAAGTGATTGTGCTGGCAACTCCTTTCAAGCCAATCCTGGAAGCT
TCAGTTATCAGAAAGCAAAATGGAGAAGAACATGTTGTACTCATGTGCTCCACCATGAGAAGCAAGCCCCCTCCG
CAGATAACCTGGCTACTTGGAATAGCATGGAAGTGTCCGGTGGAAACGCTCCATGAATTTGAAACTGATGGGAAG
AAATGTAATACTACCAGCACTCTCATAATCCACACTTATGGCAAAAATCAACGGTGGACTGCATTATCCGACAC
AGAGGCCTGCAAGGGAGAAAACTAGTAGCACCTTCCGGTTTGAAGATTTGGTTACTGATGAAGAGACAGCTTCA
GATGCTCTGGAGAGAACTCTCTATCCTCTCAAGACCCACAGCAGCCCACCAGTACTGTCTCAGTAACGGAAGAT
TCTAGTACATCGGAGATTGACAAGGAAGAGAAAGAACAACCACTCAAGATCCTGACTTGACCACCGAAGCAAAAT
CCTCAGTATTTAGGACTGGCAAGAAAGAAAAGTGGCATCCTGCTGCTCACGCTGGTGTCTTCTCATTTCATA
CTCTTCATCATAGTCCAGCTCTTCATCATGAAGCTGAGGAAAGCACATGTGATATGGAAGAGAGAAAACGAAGTT
TCAGAACACACACTAGAAAGTTACAGATCAAGGTCAAATAATGAAGAAACATCATCTGAAGAGAAAAATGGCCAA
TCTTCCACCCTATGCGTTGCATGAACATACATCACAAGTTGTACTCAGAAGCAAAAACAAAGAGGAAGGAAAAAT
GTACAACATTCAAAATTAGAAGAAAAGCACATCCAAGTACCAGAGAGTATTGTG**TAG**TGCTCTCTGCAATGGAAC
ATGTGATTTTCAAGGTTGCCGCAGTGTACCTCAGTGGACCAGCCTGGGGGAAGGAGCTTAATTGCTGAGACATTA
ATAATGACCTCTTAGTGCAATGCAAGATGGTGTCTCGGATAATGATCTGCCCCGGAGCTAGGGCAGCAACATGA
GGACCAAAACCATGCACATAAAGCTTGTAGTTTAAAAAAGAAAAAGCAAAAAATAATTATGCCTGACACTACTTCA
GAGCAGGAGGATTCTACGAAGCCTTGGGGATCAGGGTCAGTGTGAGCAGCTAACATCCTACCTCAAATGGAACAG
GATTTTTTGTATGCTTTGCTCTAATGGAAGTGTTTTAAAAATTTTTTTTTTCTTTTTTAATATTTTCTTCTGGTCACA
AAATAAAGAAATTTGGGATGCAAAGTACCTAAAGATCTCTGATCCTAAGAAGTTACTTCTGGCCAGGCGCGGTGG
CTCATGCCTGTAATCCTAGCACTTTGGGAGGCTGAGGTAGGCAGATCACTTGAGGTCAGGAGTTGGAGACCAGCC
TGGCCAACATAGTGAAACCCCGTCTCTACTAAAAATGCAAAAATTAGCCAGGCGTAGTGGTGCACCTGTAGTC
TCAGATACTTGGGAGGCTGAGGGTGGAGAATCGCTTGAACCTGGGAGGTGGAGATTGCAGTGAGTCAAGATCTCA
CCACTGAACTCCAGCCTGGGCGACAGAGGGAGACTCTGTCTCAAAAAAAGAAGTTACTTCCAAGACAGACTTT
TAACATGTAACCAGCACAAAGCAATGTCAGGGAGGAGTGATACATGACAATAAATGAGTCAGATGAGCAAGAAG
CCCCAGAACCCATGCCCCAAGGCACAAAGAGGAGCTCAGGGTAGGCCCAAAGATTGCAATTCCTTAGATTACTAA
ATCACATGAGCGGACCTTGTCTGTCAGATAAGATTTTTACCTGGAAATTCATGACCAATACATGTGCAAAAGAA
AATGATGGGTGAATTTACTGATTATTGACCTAATGGATGGCTTTTTAAATGTTTTAATAAAAAGCAGAATAGA
TGTTTGTCTTCTAGTGGTTATACCAAGCTATACTTCTGTTCACGTGTGAAAGTAACATGGGACATGCCTTT
CTTTTCCGATCAGTTTATTTAAGCTATACAGCAAACTTTGGCATTATGTGGAGCATTTCTCATTGTTGGAATCT
GAATAAACCAATTACAAAATAAAAA

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FIGURE 1178

MWWRVLSLLAWFPLQEASLTNHTETITVEEGQTLTLKCVTS LRKNSSLQWLTPSGFTIFLNEYPALKNSKYQLLH
HSANQLSITVPNVTLQDEGVYKCLHYSDSVSTKEVKVIVLATPFKPILEASVIRKQNGEEHVLMCSTMRSPPP
QITWLLGNSMEVSGGTLHEFETDGKKCNTTSTLIIHTYGKNSTVDCIIRHRGLQGRKLVAPFRFEDLVTDEETAS
DALERNLSLSSQDPQOPTSTVSVTEDSSTSEIDKEEKEQTTQDPDLTTEANPQYLGLARKKSGILLTLVSFLIFI
LFIIVQLFIMKLRLKAHVWKRENEVSEHTLESYRSRSNNEETSSEEKNGQSSHPMRCMNYITKLYSEAKTKRKEN
VQHSKLEEKHIQVPESIV

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FIGURE 1179

GTTTCAGCGCCGGCGCCGGTGTGCGAGCCGCGGCAGAGTGAGGCAGGCAACCCGAGGTGCGGAGCGACCTGCGGAG
GCTGAGCCCCGCTTTTCTCCCAGGGTTTCTTATCAGCCAGCCGCCGCTGTCCCCGGGGGAGTAGGAGGCTCCTGAC
AGGCCGCGGCTGTCTGTGTGTCTTTCTGAGTGTCTAGAGGAACGGCCAGACCCCGCGGGCCGGAGCAGAACCGCGC
CAGGGCAGAAAGCGGCGGCAGGAGAAGCAGGCAGGGGGCCGGAGGACGCAGACCCGAGACCCGAGGCGGAGGCGGA
CCGCGAGCCGGCCATGTTCGGTGGTGGGGTTGGACGTGGGCTCGCAGAGCTGCTACATCGCGGTAGCCCGGGCCGG
GGGCATCGAGACCATCGCCAATGAGTTCAGCGACCGGTGCACCCCGTCAGTCATATCATTTGGATCAAAAAATAG
AACAAATCGGAGTTGCAGCCAAAAATCAGCAAATCACTCATGCAACAATACGGTGTCTAACTTCAAAAGATTTC
TGGCCGAGCATTCAACGACCCCTTCATTCAAAAGGAGAAGGAAAACCTTGAGTTACGATTGTGGTTCCATTGAAAA
TGGTGGAGTTGGAATAAAGGTAATGTACATGGGTGAAGAACATCTATTTAGTGTGGAGCAGATAACAGCCATGTT
GTTGACTAAGCTGAAGGAACTGCTGAAAACAGCCTCAAGAAACCAGTAACAGATTGTGTTATTTAGTCCCCTC
CTTCTTTACAGATGCTGAGAGGCGATCTGTGTTAGATGCTGCACAGATTGTTGGCCTAACTGTTTAAGACTTAT
GAATGACATGACAGCTGTTGCTTTGAATTACGGAATTTATAAGCAGGATCTCCCAAGCCTGGATGAGAAACCTCG
GATAGTGGTTTTTGTGATATGGGACATTCAGCTTTTCAAGTGTCTGCTTGTGCTTTTAACAAGGGAAAATTGAA
GGTACTGGGAACAGCTTTTGTATCCTTTCTTAGGAGGAAAAAACCCTTCGATGAAAAGTTAGTGGAACATTTCTGTGC
AGAATTTAAACTAAGTACAAGTTGGATGCAAAATCCAAATACGAGCACTCCTACGTCTGTATCAGGAATGTGA
AAAAGTAAAAAGCTAATGAGCTCTAACAGCACAGACCTTCCACTGAATATCGAATGCTTTATGAATGATAAAGA
TGTTTCCGGAAGATGAACAGGTCACAATTTGAAGAACTCTGTGCTGAACCTTCTGCAAAAAGATAGAAGTACCCCT
TTATTCACGTGTGGAACAACTCATCTCAAAGTAGAAGATGTGAGTGCAGTTGAGATTGTTGGAGGCGCTACACG
AATTCCAGCTGTGAAGGAAAGAATTGCCAAATTTCTTTGAAAAGATATTAGCACAACTCAATGCAGATGAAGC
AGTAGCCAGAGGATGTGCATTACAGTGTGCAATACTTTCCCGGCATTTAAAGTTAGAGAATTTTCCGTCACAGA
TGCAGTTCCTTTTCCAATATCTCTGATCTGGAACCATGATTGAGAAGATACTGAAGGTGTTGATGAAGTCTTTAG
TCGAAACCATGCTGCTCCTTTCTCCAAAGTTCTCACCTTTCTGAGAAGGGGGCCTTTTGTAGCTAGAAGCTTTCTA
TTCTGATCCCCAAGGAGTTCCATATCCAGAAGCAAAATAGGCCGCTTTGTAGTTTCAAGATGTTTCTGCACAGAA
AGATGGAGAAAAATCTAGAGTAAAAAGTCAAAAGTGCAGTCAACACCCATGGCATTTCACCATCTCTACGGCATC
TATGGTGGAGAAAGTCCCAACTGAGGAGAATGAAATGTCTTCTGAAGCTGACATGGAGTGTCTGAATCAGAGACC
ACCAGAAAACCCAGACACTGATGCAAAATGAAAAAAAAGTTGACCAGCCTCCAGAAGCTAAAAAGCCCAAAATAAA
GGTGGTGAATGTTGAGCTGCCTATTGAAGCCAACTTGGTCTGGCAGTTAGGGAAAGACCTTCTTAACATGTATAT
TGAGACAGAGGGTAAGATGATAATGCAAGATAAATTGGAAAAAGAAAGGAATGATGCTAAAAATGCAGTTGAGGA
ATATGTGTATGAGTTCAGAGACAAGCTGTGTGGACCATATGAAAAATTTATATGTGAGCAGGATCATCAAAATTT
TTTGAGACTCCTCACAGAACTGAAGACTGGCTGTATGAAGAAGGAGAGGACCAAGCTAAACAAGCATATGTTGA
CAAGTTGGAAGAATTAATGAAAATTGGCACTCCAGTTAAAGTTCTGGTTTCAGGAAGCTGAAGAACGGCCAAAAAT
GTTTGAAGAACTAGGACAGAGGCTGCAGCATTATGCCAAGATAGCAGCTGACTTCAGAAATAAGGATGAGAAATA
CAACCATATTGATGAGTCTGAAATGAAAAAAGTGGAGAAGTCTGTTAATGAAGTATGGAATGGATGAATAATGT
CATGAATGCTCAGGCTAAAAAGAGTCTTGATCAGGATCCAGTTGTACGTGCTCAGGAAATTAACAAAAATCAA
GGAATTGAACAACACATGTGAACCCGTTGTAACACAACCGAAACCAAAATTTGAATCACCCAACTGGAAAGAAC
TCCAAATGGCCCAATATTGATAAAAAAGGAAGAAGATTTAGAAGACAAAAACAATTTTGGTGTGTAACCTCCACA
TCAGAATGGTGAATGTTACCCTAATGAGAAAAATCTGTTAATATGGACTTGGACTAGATAAACCTTAAATTTGGCC
TATTCCTTCAATTAATAAAATATTTTGGCCATAGTATGTGACTCTACATAACATACTGAACTATTTATATTTTCT
TTTTTTAAGGATATTTAGAAATTTTGTGTATTATATGGAAAAAGAAAAAAGCTTAAGTCTGTAGTCTTTATGAT
CCTAAAAGGGAAAAATTGCCTTGGTAACTTTTCAAGATTCCTGTGGAATTGTGAATTCATACTAAGCTTTCTGTGCAG
TCTCACCATTGTCATCACTGAGGATGAACTGACTTTTGTCTTTTGGAGAAAAAAAAGTGTACTGTTGTTCAAGA
GGGCTGTGATTAAATCTTTAAGCATTGTTCTTCCGCAAGGTAGTTTTCTTGCATTTTGTCTCTCCATTCAGCATG
TGTGTGGGTGTGGATGTTTATAAACAAGACTAAGTCTGACTTCATAAGGGCTTTCTAAAACCATTTCTGTCCAAG
AGAAAAATGACTTTTTGCTTTGATATTAAAAATTCATGAGTAAACAAAAGCTAGTCAAAATGTGTTAGCAGCATG
CAGAACAAAAACCTTTAACTTTCTCTCTCACTATACAGTATATTGTCAATGTGAAAGTGTGGAATGGAAGAAATG
TCGATCCTGTTGTAAGTATTGTGAACACTTTTATGAGCTTTAAATAAAGTTTATCTTATGGTGTCAATTTCT

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FIGURE 1180

MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAF
NDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEHLSVEQITAMLLTKLKETAENSLKKPVTDCVISVPSFFTD
AERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLVLT
AFDPFLGGKNFDEKLVEHFCAEFKTKYKLDASKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVS
MNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARG
CALQCAILSPAFAKREFSVTDVFPFISLIWNHDSDETEGVHEVFSRNHAAPFSKVLTFLLRGPFELEAFYSDPQ
GVFPYPAKIGRFVVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENP
DTDANEKKVDQPPEAKKPKIKVVNVELPIEANLVWQLGKDILNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYE
FRDKLCGPYEKFICEQDHQNFLLLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAERPKMFEEL
GQRLQHYAKIAADFRNKDEKYNHIDSEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNN
TCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPHQNGECPNEKNSVNMDLD

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FIGURE 1181A

CTTCAGATAGATTATATCTGGAGTGAAGGATCCTGCCACCTACGTATCTGGCATAGTATTCTGTGTAGTGGGATG
AGCAGAGAACAAAAACAAAATAATCCAGTGAGAAAAGCCCGTAAATAAACCTTCAGACCAGAGATCTATTCTCCA
GCTTATTTTAAAGCTCAACTTAAAAAGAAGAACTGTTCTCTGATTCTTTTCGCCTTCAATACACTTAATGATTAA
CTCCACCCTCCTTCAAAAGAAACAGCATTTCCTACTTTTATACTGTCTATATGATTGATTGTCACAGCTCATCTG
GCCAGAAGAGCTGAGACATCCGTTCCTTACAAGAACTCTCCCCGGGTGGAACAAGATGATTATCAAGTGTCA
AGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGCCAAAAAATCAATGTGAAGCAAATCGCAGCCCGC
CTCCTGCCTCCGCTCTACTCACTGGTGTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATA
AACTGCAAAGGCTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTCTCTTCTT
ACTGTCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATGTGTCAACTCTTGACAGGG
CTCTATTTTATAGGCTTCTTCTGGAATCTTCTTCATCATCCTCCTGACAATCGATAGGTACCTGGCTGTCGTC
CATGCTGTGTTTGCTTTAAAGCCAGGACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCT
GTGTTTGCCTCTCTCCAGGAATCATCTTTACCAGATCTCAAAAAGAGGTCTTCATTACACCTGCAGCTCTCAT
TTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATCTTGGGGCTGGTCTGCGG
CTGCTTGTGATGGTCATCTGCTACTCGGGAATCTTAAAACTCTGCTTCGGTGTGAAATGAGAAGAAGAGGCAC
AGGGCTGTGAGGCTTATCTTACCATCATGATTGTTTATTTTCTCTTCTGGGCTCCCTACAACATTGCTCTTCTC
CTGAACACCTTCCAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAGGTG
ACAGAGACTCTTGGGATGACGCACTGCTGCATCAACCCATCATCTATGCCTTTGTGCGGGGAGAAGTTCAGAAAC
TACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAACGCTTCTGCAAATGCTGTTCTATTTTCCAGCAAGAGGCT
CCCGAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGGCTTGTGACACGGACTC
AAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTTTTTATACACAGCCTGGGCTGGGGGTGGGGTG
GGAGAGGTCTTTTTTAAAGGAAGTTACTGTTATAGAGGGTCTAAGATTCAATCCATTTATTTGGCATCTGTTTAA
AGTAGATTAGATCTTTTAAAGCCCATCAATTATAGAAAGCCAAATCAAAATATGTTGATGAAAAATAGCAACCTTT
TTATCTCCCTTACATGCATCAAGTTATTGACAACTCTCCCTTCACTCCGAAAGTTCCTTATGTATATTTAAA
AGAAAGCCTCAGAGAATTGCTGATTCTTGAGTTTAGTGATCTGAACAGAAATACCAAAATTTATTCAGAAATGTA
CAACTTTTTTACCTAGTACAAGGCAACATATAGGTTGTAAATGTGTTTAAACAGGTCTTTGTCTTGCTATGGGGA
GAAAAGACATGAATATGATTAGTAAAGAAATGACACTTTTCATGTGTGATTTCCTCCCAAGGTATGGTTAATAA
GTTTCACTGACTTAGAACCAGGCGAGAGACTTGTGGCCTGGGAGAGCTGGGGAAGCTTCTTAAATGAGAAGGAAT
TTGAGTTGGATCATCTATTGCTGGCAAAGACAGAAGCCTCACTGCAAGCACTGCATGGGCAAGCTTGGCTGTAGA
AGGAGACAGAGCTGGTTGGGAAGACATGGGGAGGAAGGACAAGGCTAGATCATGAAGAACCTTGACGGCATTGCT
CCGTCTAAGTCATGAGCTGAGCAGGGAGATCCTGGTTGGTGTGTCAGAAGGTTTACTCTGTGGCCAAAGGAGGGT
CAGGAAGGATGAGCATTTAGGGCAAGGAGACCACCAACAGCCCTCAGGTCAGGGTGAGGATGGCCTCTGCTAAGC
TCAAGGCGTGAGGATGGGAAGGAGGGAGGTATTCGTAAGGATGGGAAGGAGGGAGGTATTCGTGCAGCATATGAG
GATGCAGAGTCAGCAGAACTGGGGTGGATTGTTGGTTGGAAGTGAGGGTCAGAGAGGAGTCAGAGAGAATCCCTAG
TCTTCAAGCAGATTGGAGAAACCTTGAAAAGACATCAAGCACAGAAGGAGGAGGAGGTTTAGGTCAAGAAG
AAGATGGATTGGTGTAAGGATGGGTCTGGTTGTCAGAGCTTGAACACAGTCTCACCCAGACTCCAGGCTGTCT
TTCCTGAAATGCTTCTGACTTCATAGATTTCTTCCCATCCCAGCTGAAATACTGAGGGGTCTCCAGGAGGAGAC
TAGATTTATGAATACAGAGGTATGAGGTCTAGGAACATACTTCAGCTCACACATGAGATCTAGGTGAGGATTGA
TTACCTAGTAGTCATTTTATGAGGTGTTGGGAGGATTCTATGAGGCAACACAGGACAGCATTTAGCACATACTAC
ACATTCAATAAGCATCAAACTCTTAGTTACTCATTGAGGATAGCACTGAGCAAAGCATTGAGCAAAGGGGTCCC
ATATAGGTGAGGGAAGCCTGAAAAACTAAGATGCTGCCTGCCAGTGCACACAAGTGATAGGTATCATTTTCTGCA
TTTAAACCGTCAATAGGCAAAGGGGGGAAGGGACATATTCATTTGGAATAAGCTGCCTTGAGCCTTAAAACCCAC
AAAAGTACAATTTACCAGCCTCCGTATTTTCAAGCTGAATGGGGGTGGGGGGGGCGCCTTAGGTACTTATTCAGA
TGCTTCTCCAGACAAACCAGAAGCAACAGAAAAAATCGTCTCTCCCTCCCTTTGAAATGAATATACCCCTTAGT
GTTTGGGTATATTCATTTCAAAGGGAGAGAGAGAGGTTTTTTTTCTGTTCTTTCTCATATGATTGTGCACATACTT
GAGACTGTTTTGAATTTGGGGATGGCTAAAACCATCATAGTACAGGTAAGGTGAGGGAATAGTAAGTGTTGAGA
ACTACTCAGGGAATGAAGGTGTCAGAATAATAAGAGGTGCTACTGACTTTCTCAGCCTCTGAATATGAACGGTGA
GCATTGTGGCTGTGAGCAGGAAGCAACGAAGGGAAATGTCTTTCTTTTGTCTTAAAGTTGTGGAGAGTGCAACA
GTAGCATAGGACCCTACCCTCTGGGCCAAGTCAAAGACATTCTGACATCTTAGTATTTGCATATTCTTATGTATG

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FIGURE 1181B

TGAAAGTTACAAATTGCTTGAAAGAAAATATGCATCTAATAAAAAACACCTTCTA

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FIGURE 1182

MDYQVSSPIYDINYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRLKSMTDIYLLNLAIS
DLFFLLTVPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIFFIILLTIDRYLAVVHAVFALKARTVTFGVVTSV
ITWVVAVFASLPGIIFTRSQKEGLHYTCSSHPYSQYQFWKNFQTLKIVILGLVLPLLVMVICYSGILKTLLRCR
NEKKRHRAVRLIFTIMIVYFLFWAPYNIVLLLNTFQEFFGLNNCSSSNRLDQAMQVTETLGMTHCCINPIIYAFV
GEKFRNYLLVFFQKHIAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISVGL

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FIGURE 1183

CATTGAGAGACAGAAGGTGGATAGACAAATCTCCACCTTCAGACTGGTAGGCTCCTCCAGAAGCCATCAGACAGG
AAGATGTGAAAATCCCCAGCACTCATCCCAGAATCACTAAGTGGCACCTGTCCTGGGCCAAAGTCCCAGGACAGA
CCTCATTGTTCTCTGTGGGAATACCTCCCCAGGAGGGCATCCTGGATTTCCCCCTTGCAACCCAGGTCAGAAGT
TTCATCGTCAAGGTTGTTTTATCTTTTTTTTTCTGTCTAACAGCTCTGACTACCACCCAACCTTGAGGACACAGTG
AAGACATCGGTGGCCACTCCAATAACAGCAGGTCACAGCTGCTCTTCTGGAGGTGTCTACAGGTGAAAAGCCCA
GCGACCCAGTCAGGATTTAAGTTTACCTCAAAAATCGGAAGATTTTAACATGGAGAGTGACAGCTTTGAAGATTTT
TGGAAAGGTGAAGATCTTAGTAATTACAGTTACAGCTCTACCCTGCCCCCTTTTCTACTAGATGCCGCCCCATGT
GAACCAGAATCCCTGGAAATCAACAAGTATTTTGTGGTCATTATCTATGCCCTGGTATTCTGCTGAGCCTGCTG
GGAAACTCCCTCGTGATGCTGGTCATCTTATACAGCAGGTCGGCCGCTCCGTCAGTATGTCTACCTGCTGAAC
CTAGCCTTGCCGACCTACTCTTTGCCCTGACCTTGCCCATCTGGGCCGCTCCAAGGTGAATGGCTGGATTTTT
GGCACATTCTGTGCAAGGTGGTCTCACTCCTGAAGGAAGTCAACTTCTATAGTGGCATCCTGCTACTGGCCTGC
ATCAGTGTGGACCGTTACCTGGCCATTGTCCATGCCACACGCACACTGACCCAGAAGCGCTACTTGGTCAAATTC
ATATGTCTCAGCATCTGGGGTCTGTCTTGTCTGCTGGCCCTGCCTGTCTTACTTTTCCGAAGGACCGTCTACTCA
TCCAATGTTAGCCAGCCTGCTATGAGGACATGGGCAACAATACAGCAAATGGCGGATGCTGTTACGGATCCTG
CCCCAGTCCCTTGGCTTCATCGTGCCACTGCTGATCATGCTGTTCTGCTACGGATTACCCCTGCGTACGCTGTTT
AAGGCCACATGGGGCAGAAGCACCGGGCCATGCGGGTCATCTTTGCTGTCTCTCATCTTCTGCTCTGCTGG
CTGCCCTACAACCTGGTCTGCTGGCAGACACCCTCATGAGGACCCAGGTGATCCAGGAGACCTGTGAGCGCCGC
AATCACATCGACCGGGCTCTGGATGCCACCGAGATTCTGGGCATCCTTCACAGCTGCCTCAACCCCCCTCATCTAC
GCCTTCATTGGCCAGAAGTTTCGCCATGGACTCCTCAAGATTCTAGCTATACATGGCTTGATCAGCAAGGACTCC
CTGCCCAAAGACAGCAGGCCTTCTTTGTTGGCTCTTCTTCAGGGCACACTTCCACTACTCTCTAAAGACCTCCTG
CCTAAGTGCAGCCCGTGGGGTTCTCTCTTTCACAGTCACATTCCAAGCCTCATGTCCACTGGTTCTTCTT
GGTCTCAGTGTCAATGCAGCCCCATTGTGGTCACAGGAAGTAGAGGAGGCCACGTTCTTACTAGTTTCCCTTGC
ATGGTTTAGAAAGCTTGCCCTGGTGCTCACCCTTGCCATAATTACTATGTCATTTGCTGGAGCTCTGCCCATC
CTGCCCTGAGCCCATGGCACTCTATGTTCTAAGAAGTGAAAATCTACACTCCAGTGAGACAGCTCTGCATACTC
ATTAGGATGGCTAGTATCAAAAGAAAGAAAATCAGGCTGGCCAACGGGGTGAAACCTGTCTCTACTAAAAATACA
AAAAAAAAAAAAAAAAATTAGCCGGGCGTGGTGGTGAGTGCTGTAATCACAGCTACTTGGGAGGCTGAGATGGGAGA
ATCACTTGAACCCGGGAGCAGAGGTTGCAGTGAGCCGAGATTGTGCCCTGCCATCCAGCCTGAGCGACAGTGAG
ACTCTGTCTCAGTCCATGAAGATGTAGAGGAGAACTGGAACCTCTCGAGCGTTGCTGGGGGGGATTGTAAAATGG
TGTGACCACTGCAGAAGACAGTATGGCAGCTTTCTCATAAATTCAGACATAGAATTAACACATGATCCTGCAAT
TCCACTTATAGGAATTGACCCACAAGAAATGAAAGCAGGGACTTGAACCCATATTTGTACACCAATATTCATAGC
AGCTTATTCACAAGACCCAAAAGGCAGAAGCAACCCAAATGTTTCATCAATGAATGAATGAATGGCTAAGCAAAAT
GTGATATGTACCTAACGAAGTATCCTTCAGCCTGAAAGAGGAATGAAGTACTCATAATGTTACAACACGGACGA
ACCTTGAAAACCTTTATGCTAAGTGAAATAAGCCAGACATCAACAGATAAATAGTTTATGATTCCACCTACATGAG
GTACTGAGAGTGAACAAATTTACAGAGACAGAAAGCAGAACAGTGATTACCAGGGACTGAGGGGAGGGGAGCATG
GGAAGTGACGGTTTAAATGGGCACAGGGTTTATGTTTAGGATGTTGAAAAGTTCTGCAGATAAACAGTAGTGATA
GTTGTACCGCAATGTGACTTAATGCCACTAAATTGACACTTAAAAATGGTTTAAATGGTCAATTTTGTATGTAT
ATTTTATATCAATTTAAAAAAAACCTGAGCCCCAAAAGGTATTTTAAATCACCAAGGCTGATTAAACCAAGGCTA
GAACCACCTGCCTATATTTTTTGTAAATGATTTTCATTCATATCTTTTTTTTAAATAAACCATTTTTTACTTGGGT
GTTTAT

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FIGURE 1184

MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLDDAAPCEPESLEINKYFVVIIYALVFLLSLLGNSLVMLVILY
SRVGRSVTDVYLLNLALADLLFALTLPPIWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLACISVDRYLAIVH
ATRTLTKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGNNNTANWRMLLRILPQSFGFIVPLL
IMLFCYGFTRLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRALDATE
ILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSL PKDSRPSEFVGSSSGHTSTTL

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FIGURE 1185

ACAAAGCAGTGCAGGCAGCCCGCCTGGCTTTCTCTCTTGGTTCAGTGTGGAGAAGG**ATGG**ATGCTTCAGAAAAGG
GACGTCTGTTGGATAAGCTTGCAGACTTGGTGGAAACGGGACAGGGCAGTTCTTGCAACCATGGAATCCCTAAATG
GTGGCAAAACCATTCCTGCAAGCTTTTTATGTGGATTTGCAGGGCGTCATCAAAACCTTTTCGATATTACGCAGGCT
GGGCTGATAAAATTTCATGGGATGACCATTCCCTGTAGATGGAGACTATTTTACCTTTACAAGACATGAACCCATTG
GAGTGTGTGGACAGATCATCCCATGGAACCTCCCCCTGCTGATGTTTGCCTGGAAAATAGCTCCAGCTTTGTGCT
GTGGCAATACAGTAGTTATTAAGCCAGCAGAGCAAACACCCTCAGTGCCTCTACATGGGAGCCCTCATCAAGG
AGGCTGGCTTTCTCCCGGGGTCATCAATATTTTGCCAGGATATGGGCCAACGGCTGGGGCAGCAATAGCTTCTC
ACATTGGCATAGACAAGATTGCATTACAGGGTCTACTGAGGTTGGAAAGCTTATCCAAGAAGCAGCTGGAAGAA
GTAATTTGAAGAGAGTAACCTCTGGAACCTGGAGGCCAAAAGTCCTAATATTATTTTGTGCTGATGCTGACTTGACT
ATGCTGTGGAGCAGGCCACCAGGCTGTGTTCTTCAATCAAGGTCAGTGTGCTGCTGAGGCTCTCGCATCTTCG
TGGAGGAGTCCATCTATGAGGAGTTTGTGAGAAGAAGCGTGGAGCGGGCCAAGAGGCGCATAGTGGGGAGTCCCT
TTGACCCACCCTGAGCAGGGTCCCAGATTGATAAGAAACAGTACAACAAGATCTTGGAACCTCATCCAGAGTG
GTGTGGCTGAGGGCGCCAAGCTGGAATGTGGAGGCCAAGGACTGGGCCGAAAGGGGTTTTTTCATTGAGCCACAG
TGTTTTCCAACGTCACCTGATGATATGCGGATTGCCAAGGAGGAGATCTTGGCCCTGTTTCAGGAAATTTTGAGAT
TTAAGACGATGGATGAAGTTATCGAAAGAGCCAATAACTCAGACTTTGGACTCGTAGCAGCTGTCTTTACTAATG
ACATCAACAAGGCCCTCACAGTGTCTTCTGCAATGCAAGCTGGGACTGTTTGGATCAATTGTTACAATGCCTTAA
ATGCCCAGAGCCCCTTTGGGGGATTCAAGATGTCTGGAAATGGGAGAGAAATGGGAGAATTTGGCTTGCGGGAGT
ACTCAGAAGTTAAGACGGTGACAGTAAAGATCCCCCAGAAGAACTCC**TAAGA**AGGCCAAGAAGGAGGATGAAGCC
CAGCCTGCACGTCTGTCCCTCTCTGCTTTCTCTGTAGGGCCAGCTCTCAGGAATACAAAGTTGAGCCACGGTCC
TTACTTAAAGATTGAAAAGATAACATGTAGGCCAGGCAGGTCAGTGCACAACCTAAAGCAAACCAGCTGGGTACAG
TTTCTTGGCACTCTGTAAGGGGCCACCTTAATCATACCAAATATTGGGGAAAGTGGGATAAAGGGAGGAGGAGGA
GCTAGCAGACACATCCAGTATCTCCTTCTGGAGCACAGGATGAAATAAGGGAGCTGTATTATTTTCATGTCTTTGT
CACAAAGAAGCTTTCCTCTCAAGGAAAGGTGACCTTTCTCCTGTCTTCAATTTTCTCCTTCCAGGCCCTCCTCGCT
CACCCACCCCTCCCTCTCTTCCAAGGAGATGTGAGCTGAGCTCATTCTGGGGCAGATGTTTGGGCCGGGAACAAT
TTTTCAAGGTTGTAAAGCCAAATTATCATTTTCATGTTATCCATTTCTTCAAAGCAAACATGAAATGGTTTTAGC
TAGAGTCAGACCAGAATGAAAATGCCAGGAGCTGGTACACTACAGATGTAGTAAGAACCTGGGATATTCTTGACC
CAATCTGGTTTTCTTTTACCCATAAATAACATGAATGAAAAAGATTGGGACAATAGAGACTGGAAGTCATCATG
TGCAGTTCACCGCTTCTGAGCTTGCTGCAGTTTTGGGGTGTGTGTGTATTAGATTCCTTCTCAGTTATTCTGGAA
TAAGGCAAGGAGTGGGTTGTTTTTCATAGCTAGATAAGATCTTTTCCAAAGTTTTTCTTAGAACCAACCAAAAAA
CAATCCGAGTAGGCCCAAGAATTTGATAATGCTGGATGCCTTGACAGATCATTTCAGTTTCTAATATTGGGCAAC
AATTATTATTAATGAATTATTTCTGTAGTTGGAATCTGTACCTTCTGAACCTCTACACCAATAACTGCTGCAGG
TGTGATTTTGGTCTGTACACTGTACATCTATCATAATGTGCCCTGTATCTATTGGCAGTGACCTTGGAAAACT
GGCCAAGCCTAGGGGTTTTCTTTTCCATTTGCCAAGTCCATTGTGCCAGGACTGCCGTGCTCCACTGAGCTCCT
CTGTCACACCCCATTCCTTGCCCTCACTGGGCAGGCCATGGCCTACAGCTTGCAGGGAGTAAAGCAGGCCCGCT
CCCTTTCTTCCCATCCACATACTCCTCTTCTGCTTTCCAGTGACTCCACCAGTTTGATGTGGGAAGTGTTAGCTT
CCTTTCTTCTTCCATCCCTTCTTCCATCTTTCCAGCTGTCAAATCCAATCCAGTCTCTAACCTAAATGCAGATC
ATTTATTTAAAGTACCAAACATAACCCAGAGTATGTGGAATATGGGCAACATATATATAGCCTTCTGTATTTAA
CGATCTTCTGCTTCTTAACCGTACCAGTTTTCTATTTATAACTCTTATCTATCCATGATGTTTTAAAGTCTCCAC
TTGCTGTTATTTACAAACGACAGTGCATTTCAGCAGCCAGTGCCGTGAGCCCTGACAGATGCCGTATTTCTGAGT
GCTTCCATGTGAATGCTGCCCTCCTGTAGCATGTGTCCAAGTGACATAGCCACTAACCAACTAGTTACCTTTGG
ACTGCAACAAAAATGTGAAAATGAAGATTTATTTCTTTTAATTTACTTAAAAAGAAACCTCTGTGCTAGCAATA
AAGCATTTATATTGTGC

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FIGURE 1186

MDASERGRLLDKLADLVERDRAVLATMESLNNGGKPFLLQAFYVDLQGVIKTFRYYAGWADKIHGMTIPVDGDYFTF
TRHEPIGVCGQIIPWNFLLMFAWKIAPALCCGNTVVIKPAEQTPLSALYMGALIKEAGFPPGVINILPGYGPTA
GAAIASHIGIDKIAFTGSTEVGKLIQEAAGRSNLKRVTLLELGGKSPNIIFADADLDYAVEQAHQGVFFNQGCCT
AGSRIFVEESIYEEFVRRSVERAKRRIVGSPFDPTTEQGPQIDKKQYNKILELIQSGVAEGAKLECGGKGLGRKG
FFIEPTVFSNVTDDMRIAKEEIFGPVQEILRFKTMDEVIERANNSDFGLVAAVFTNDINKALTVSSAMQAGTVWI
NCYNALNAQSPFGGFKMSGNGREMGEFGLREYSEVKTVTVKIPQKNS

FIGURE 1187

GGAAGAACTTCTGCCTCAGGTGGGGAGAGGAGTCCATAGATCAGGGAAACTTATGTCTTGGTGAAATGGAAGACCAT
 GTTCTTAAACACCTGTCGCCAGGTTACTTGAATTTCCACTAGAGGAGCAGAAATGCCACCAATGCCAAGTGCCCC
 ACCTGTGCATCCACCTCCAGATGGAGGATGGGGTTGGATTGTGGTTGGAGCAGCTTTTATCTCCATTGGATTTTC
 CTATGCATTCCCCAAAGCTGTCAACGTATTCTTCAAAGAAATTCAGCAAATATTCCACACTACCTACAGTGAAAT
 AGCATGGATTTTCATCCATTATGCTGGCTGTTATGTACGCAGGAGTCCCTGTAAGTAGTGTTTTGGTGAAATAAATA
 CGGCAGCCGGCCGGTGGTGATAGCAGGAGGCTTATTATGCTGTCTTGGAAATGGTGTGGCCTCCTTTAGTAGCAG
 CGTGGTACAGCTGTACCTCACTATGGGATTCAATTACAGTTTAGGTTTAGCCTTCAACCTGCAACCCGCCCTTAAC
 CATAATTGGCAAATACTTCTATAGGAAGCGACCCATGGCAAATGGATTGGCCATGGCAGGAAGTCCTGTTTTCTT
 AAGTTCATTGGCTCCTTTCAATCAGTACCTTTTTAATACTTTTGGCTGGAAAGGAAGCTTCCTGATTTTGGGAAG
 TCTACTTTTGAATGCCTGTGTGGCTGGTTCCTCATGAGACCCCTTGGACCCAATCAAACCACTTCTAAGTCTAA
 AAATAAGACTGGCAAAACAGAAGATGATTCAGCCCAAAGAAAATCAAACGAAGAAATCAACTTGGGAAAAAGT
 TAATAAGTATTTAGATTTCTCCCTTTTTAAGCATAGAGGATTTCTGATATATCTGTCTGGAAATGTCATTATGTT
 CCTAGGTTTTTTTTGCCCCCATTATATTCTTGGCTCCATATGCTAAAGACCAAGGAATTGATGAGTACTCGGCAGC
 TTTCTGCTATCTGTTATGGCTTTTCGTTGATATGTTTGCTAGGCCTTCTGTAGGATTAATTGCAAACCTCCAAATA
 TATTCGACCTCGAATTCAGTACTTCTTCAGTTTTGCAATCATGTTCAATGGAGTGTGTACCTCTTGTGCCCACT
 GGCACAGGACTACACAAGCCTGGTATTATATGCTGTATTTTTTGGCCTTGGATTGGGAGTGTTAGCAGTGTTCT
 CTTTGAAACTCTCATGGACCTCGTGGGTGCACCAAGATTTTCCAGTGCCGTCGGACTTGTCACAATTGTGGAGTG
 TGGCCCAGTTCTTCTTGGCCCTCCTCTTGCAGGTAAATTTGGTGGATTTAACTGGAGAATATAAAATACATGTACAT
 GTCTGTGGGGCTATTGTGGTAGCAGCAAGCGTGTGGCTGCTCATTGGCAATGCTATCAACTATAGATTGCTTGC
 AAAGGAAAGGAAGGAGGAAAATGCAAGGCAGAAGTCCAGAGAATCTGAACCTTGAGCAAATCTAAACATTTCGA
 AGATGTTAACGTCAAAGTTTCAAATGCACAGAGTGTAACCTCAGAAAGAGAACTAACATTTAAACAAGAATCACA
 TCTCTGATTTCAAGTGTATGACTTTATCTAGGAGTTTGTTTTTTCATTTTGTTTTTTTAAAGTATTAGAAAAGGT
 TTTAGCTGAAATGAGGAGTCACAATTDAGGATGGAGGTGATATTTTCTCAATGGCAAATTTTAAATTAGTTTT
 TAAAACTTACTTATTTGGGTAGTTAAATTTTGAGATTATGCATAGAAAGAATCCATGCTATAGGTTTATTTCCA
 TACCTGACTCTGGGTGTGGTGGTTAAAATACTAATTTTAAAGTCTTCCAGTGACTTTCGGTCTTGGTTATATGGA
 GAATTCGTAATCCCAAACCCCTGGTTTAAAGTAGGTAGAAGGAGGATGCCTAATCCTACAAAGTGACCCCTTTATAC
 ATTTTCATTTTTTATTTGATATTAAAGTATGAGATAGAGTTGAGAGACAATTAATTATCCCCTCTTACACACAAAC
 ACACATACTCCACATACTTACCCACATGTACACAGAGTATCTGGAGAATAAAACCCAAATTCAAAAAAAAAAAAA
 AAAA

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FIGURE 1188

MPPMPSAPPVHPPPDGGWGWIVVGAAFISIGFSYAFPKAVTVFFKEIQQIFHTTYSEIAWISSIMLAVMYAGGPV
SSVLVNKYGSRPVVIAGGLLCCLGMVLASFSSSVVQLYLTMGFITGLGLAFNLQPALTIIGKYFYRKRPMANGLA
MAGSPVFLSSLAPFNQYLFNTFGWKGSFLIILGSLLL NACVAGSLMRPLGPNQTTSSKSNKTGKTEDDSSPKKIKT
KKSTWEKVNKYLDFSLFKHRGFLIYLSGNVIMFLGFFAPIIFLAPYAKDQGIDEYSAAFLLSVMAFVDMFARPSV
GLIANSKYIRPRIQYFFSFAIMFNGVCHLLCPLAQDYTSVLVLYAVFFGLGFGSVSSVL FETLMDLVGAPRESSAV
GLVTIVECGPVLLGPPLAGKLVDLTGEYKMYMSCGAIVVAASVWLLIGNAINYRLLAKERKEENARQKSRESEP
LSKSKHSEDVNVKVSNAQSVT SERETNI

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FIGURE 1189

GGGCTCGAACGCGCAGCGCACGGGAACCGGTCCCGCTGCTTGGGTGAGGTTGCGCCGGTCGCGGGAGCCCCGCCGT
GCAGTCGGAGGAACACGTGGCCATCAGTAATCATGAGCAACCCATTTCGCACACCTTGCTGAGCCATTGGATCCTG
TACAACCAGGAAAGAAATTCTTCAATTTGAATAAAATTGGAGGATTCAAGATATGGGCGCTTACCATTTTCGATCA
GAGTTCTTCTGGAAGCAGCCATTTCGGAATTGTGATGAGTTTTTGGTGAAGAAACAGGATATTGAAAAATATTCTAC
ATTGGAATGTCACTCAGCACAAGAACATAGAAGTGCCATTTAAGCCTGCTCGTGTGTCATCTGCAGGACTTTACGG
GTGTGCCCCGCTGTGGTTGACTTTGCTGCAATGCGTGATGCTGTGAAAAAGTTAGGAGGAGATCCAGAGAAAATAA
ACCCGTGCTGCCCTGCTGATCTTGTAATAGATCATTCCATCCAGGTTGATTTCAACAGAAGGGCAGACAGTTTAC
AGAAGAATCAAGACCTGGAATTTGAAAGAAATAGAGAGCGATTTGAATTTTTTAAAGTGGGGTTCCAGGCTTTTC
ACAACATGCGGATTATTCCCCCTGGCTCAGGAATCATCCACCAGGTGAATTTGGAATATTTGGCAAGAGTGGTAT
TTGATCAGGATGGATATTATTACCCAGACAGCCTCGTGGGCACAGACTCGCACACTACCATGATTGATGGCTTGG
GCATTCTTGGTTGGGGTGTGCGGTGGTATTGAAGCAGAAGCTGTGATGCTGGGTGAGCCAATCAGTATGGTGTCTC
CTCAGGTGATTGGCTACAGGCTGATGGGGAAGCCCCACCCTCTGGTAACATCCACTGACATCGTGCTCACCATT
CCAAGCACCTCCGCCAGGTTGGGGTAGTGGGCAAATTTGTGCGAGTTCTTCGGGCCTGGAGTAGCCAGTTGTCCA
TTGCTGACCGAGCTACGATTGCTAACATGTGTCCAGAGTACGGAGCAACTGCTGCCTTTTTCCAGTTGATGAAG
TTAGTATCACGTACCTGGTGCAAACAGGTCGTGATGAAGAAAAATTAAAGTATATTAATAAATATCTTCAGGCTG
TAGGAATGTTTTGAGATTTCAATGACCCTTCTCAAGACCCAGACTTCACCCAGGTTGTGGAATTAGATTTGAAAA
CAGTAGTGCCTTGCTGTAGTGGACCCAAAAGGCTCAGGACAAAGTTGCTGTGTCCGACATGAAAAAGGACTTTG
AGAGCTGCCTTGGAGCCAAGCAAGGATTTAAAGGATTCCAAGTTGCTCCTGAACATCATAATGACCATAAGACCT
TTATCTATGATAACACTGAATTCACCCTTGCTCATGGTTCTGTGGTCATTGCTGCCATTACTAGCTGCACAAACA
CCAGTAATCCGTCTGTGATGTTAGGGGCAGGATTGTTAGCAAAGAAAGCTGTGGATGCTGGCCTGAACGTGATGC
CTTACATCAAACTAGCCTGTCTCCTGGGAGTGGCGTGGTCACCTACTACCTACAAGAAAGCGGAGTCATGCCTT
ATCTGTCTCAGCTTGGGTTTGACGTGGTGGGCTATGGCTGCATGACCTGCATTGGCAACAGTGGGCCTTTACCTG
AACCTGTGGTAGAAGCCATCACACAGGGAGACCTTGTAGCTGTTGGAGTACTATCTGGAAACAGGAATTTTGAAG
GTCGAGTTACCCCCAACACCCGGGCCAACTATTTAGCCTCTCCCCCTTAGTAATAGCATATGCAATTGCTGGAA
CCATCAGAATCGACTTTGAGAAAGAGCCATTGGGAGTAAATGCAAAGGGACAGCAGGTATTTCTGAAAGATATCT
GGCCGACTAGAGACGAGATCCAGGCAGTGGAGCGTCAGTATGTCATCCCGGGGATGTTTAAAGGAAGTCTATCAGA
AAATAGAGACTGTGAATGAAAGCTGGAATGCCTTAGCAACCCCATCAGATAAGCTGTTTTTCTGGAATTCCAAAT
CTACGTATATCAAATCACCACCATTCTTTGAAAACCTGACTTTGGATCTTCAGCCCCCTAAATCTATAGTGGATG
CCTATGTGCTGCTAAATTTGGGAGATTGCGTAACAACCTGACCACATCTCCCAGCTGGAAATATTGCAAGAAACA
GTCCTGCTGCTCGCTACTTAACATAACAGAGGCCTAACTCCACGAGAATTCAACTCCTATGGCTCCCGCCGAGGTA
ATGACGCCGTCATGGCACGGGGAACATTTGCCAACATTGCTTGTAAACAGATTTTGAACAAGCAGGCACCAC
AGACTATCCATCTGCCTTCTGGGGAAATCCTTGATGTGTTTGATGCTGCTGAGCGGTACCAGCAGGCAGGCCTTC
CCCTGATCGTTCTGGCTGGCAAAGAGTACGGTGACGGCAGCTCCCGAGACTGGGCAGCTAAGGGCCCTTCTCTGC
TGGGAATCAAAGCCGTCCTGGCCGAGAGCTACGAGCGCATTCACCGCAGTAACCTGGTTGGGATGGGTGTGATCC
CACTTGAATATCTCCCTGGTGAGAATGCAGATGCCCTGGGGCTCACAGGGCAAGAACGATACACTATCATTATTC
CAGAAAACCTCAAACCACAAATGAAAGTCCAGGTCAAGCTGGATACTGGCAAGACCTTCCAGGCTGTGATGAGGT
TTGACACTGATGTGGAGCTCACTTATTTCTCAACGGGGGCATCCTCAACTACATGATCCGCAAGATGGCCAAGT
AGGAGACGTGCACTTGGTCTGTGCGCCAGGGAGGAAGCCGCACCACCAGCCAGCGCAGGCCCTGGTGGAGAGGCC
TCCCTGGCTGCCCTCTGGGAGGGGTGCTGCCTTGTAGATGGAGCAAGTGAGCACTGAGGGTCTGGTGCCAATCCTG
TAGGCACAAAACCAGAAGTTTCTACATTCTCTATTTTTGTAAATCATCTTCTCTTTTTCCAGAATTTGGAAGCTA
GAATGGTGGGAATGTGAGTAGTGCCAGAAAGAGAGAACCAAGCTTGTCTTTAAAGTTACTGATCACAGGACGTTG
CTTTTTCACTGTTTCTTATTAATCTTCAGCTGAACACAAGCAAACCTTCTCAGGAGGTGTCTCCTACCCCTCTTAT
TGTTCTCTTACGCTCTGCTCAATGAAACCTTCTCTTGGGGTCAATTTCTCTTCTGTATTAATTATACAGTG
TTAAGTGACATAGATAAGAACTTTGCACACTTCAAATCAGAGCAGTGATTCTCTCTCTCTCCCCCTTTTCTTCA
GAGTGAATCATCCAGACTCCTCATGGATAGGTGCGGTGTTAAAGTTGTTTTGATTATGTACCTTTTGATAGATCC
ACATAAAAAGAAATGTGAAGTTTTCTTTTACTATCTTTTCATTTATCAAGCAGAGACCTTTGTTGGGAGGCGGT
TGGGAGAACACATTTCTAATTTGAATGAAATGAAATCTATTTTCAGTG

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FIGURE 1190

MSNPF~~A~~HLAEP~~L~~DPVQPGKKFFNLNKLEDSRYGRLPFSIRVLLEAAIRNCDEF~~L~~VKKQDIENILHWNVTQHK~~N~~IE
VPFKPARVILQDFTGVP~~A~~VVDFAAMRDAVKKLG~~G~~DPEKINPVC~~P~~ADLVIDHSIQVDFNRRADSLQKNQDLEFERN
RERFEFLK~~W~~GSQAFHNMRIIPPGSGIIHQVNLEYLARV~~V~~FDQDGY~~Y~~YPDSL~~V~~GTDSHTT~~M~~IDGLGILGWGVGGIE
AEAVMLGQPIS~~M~~VLPQVIGYRLMGKPHPLVTST~~D~~IVLTITKHLRQVG~~V~~VGK~~F~~VEFFGPGVAQLSIADRATIANMC
PEYGATAAFFPVDEVSITYLVQTGRDEEKLKYIKKYLQAVGMFRDFNDPSQDPDFTQVVELDLKTVVPCCSGPKR
PQDKVAVSDMKKDFESCLGAKQGFGKFQVAP~~E~~HHNDHKTFIYDNTEFTLAHGSV~~V~~IAAITSC~~T~~NTSNPSVMLGAG
LLAKKAVDAGLNVMPYIKTSLSPGSGVV~~T~~YYLQESGVMPYLSQLGFDVVGYGCMTCIGNSGPLPEPVVEAITQGD
LVAVGVLSGNRNFEGRVHPNTRANYLASPPLVIA~~Y~~AIAGTIRIDFEKEPLGVNAKGQ~~V~~FLKDIWPTRDEIQAVE
RQYVIPGMFKEVYQKIETVNESWNALATPSDKLFFWNSKSTYIKSPFFENLTLDLQPPKSIVDAYVLLNLGDSV
TTDHIS~~P~~AGNIARNSPAARYLTNRGLTPREFNSYGSRRGND~~A~~VMARGTFANIRLLNRFLNKQAPQTIHLP~~S~~GEIL
DVFDAAERYQQAGLPLIVLAGKEYGAGSSRDWAAKGPFLLGIKAVLAESYERIHRSNLVGMGVIPLEYLPGENAD
ALGLTGQERYTIIIPENLKPQMKVQVKLDTGKTFQAVMRFDTDVELTYFLNGGILNYMIRKMAK

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FIGURE 1191A

GTAGATGAGGAACTGAAGTTGAGGAATAGTGAAGAGTTTGTCCAATGTCATAGCCCCGTAATCAACGGGACAAA
AATTTTCTTGCTGATGGGTCAAGATGGCATCGTGAAGTGGTTGTTACCGTAAACTGTAATACAATCCTGTTTAT
GGATTTGTTTGCATATTTTTCCCCCATAGGGAAACCTTTTTTCCATGGCTCAGGACACACTCCTGGATCGAGCC
AACAGGAGAACTTTCTGGTAAGCATTGGGCTAACTTTTTTTTTTTTGTAGATGGAGTCTTGCTGTGTCGCCCTAGGC
TGGAGTGCAGTGGCGTGATCTTGGCTCACTGCAGCCTCCACCTCCCGGGTTCAATCAATTCTCCTACCTCAACTT
CCTGAGTAGCTGGGATTACAGGCGCCCGCCACCACACCCGGCTCATTTTTGTACTTTTAGTAGAGACACAGTTTT
GCCATGTTGGCCAGGCTGGTCTTGAATTCCTCAGCTCAGGTGATATGCCTGCCTTGGCCTCTCAAAGTGCTGGGA
TTACAGGCGTGAGCCACTGTGCCCGGCCTTGGCTAACTTTTCAAAATTAAAGATTTTGAAGTTGTTACAGTCATGT
GACATTTTTTTCTTTCTGTTTGGTGAGTTTTTGATAATTTATATCTCTCAAAGTGGAGACTTTAAAAAAGACTCA
TCTGTGTGCCGTGTTCACTGCCTGGTATCTTAGTGTGGACCGAAGCCTAAGGACCCTGAAAACAGCTGCAGATGA
AGATGGCAAGCACCCGCTGCAAGCTGGCCAGGTACCTGGAGGACCTGGAGGATGTGGACTTGAAGAAATTTAAGA
TGCACCTAGAGGACTATCCTCCCCAGAAGGGCTGCATCCCCCTCCCGAGGGGTGAGACAGAGAAGGCAGACCATG
TGGATCTAGCCACGCTAATGATCGACTTCAATGGGGAGGAGAAGGCGTGGGCCATGGCCGTGTGGATCTTCGCTG
CGATCAACAGGAGAGACCTTTATGAGAAAGCAAAAAGAGATGAGCCGAAGTGGGGTTTCAAGATAATGCACGTGTTT
CGAATCCCACTGTGATATGCCAGGAAGACAGCATTGAAGAGGAGTGGATGGGTTTACTGGAGTACCTTTTCGAGAA
TCTCTATTTGTAAGTGAAGAAAGATTACCGTAAGAAGTACAGAAAGTACGTGAGAAGCAGATTCCAGTGCATTG
AAGACAGGAATGCCCGTCTGGGTGAGAGTGTGAGCCTCAACAAACGCTACACACGACTGCGTCTCATCAAGGAGC
ACCGGAGCCAGCAGGAGAGGGAGCAGGAGCTTCTGGCCATCGGCAAGACCAAGACGTGTGAGAGCCCCGTGAGTC
CCATTAAGATGGAGTTGCTGTTTGACCCCGATGATGAGCATTCTGAGCCTGTGCACACCGTGGTGTTCAGGGGG
CGGCAGGGATTGGGAAAACAATCCTGGCCAGGAAGATGATGTTGGACTGGGCGTGGGGACACTCTACCAAGACA
GGTTTGACTATCTGTTCTATATCCACTGTGCGGGAGGTGAGCCTTGTGACACAGAGGAGCCTGGGGGACCTGATCA
TGAGCTGCTGCCCCGACCCAAACCCACCCATCCACAAGATCGTGAGAAAACCTCCAGAATCCTCTTCCCTCATGG
ACGGCTTCGATGAGCTGCAAGGTGCCTTTGACGAGCACATAGGACCGCTCTGCACTGACTGGCAGAAGGCCGAGC
GGGGAGACATTCTCCTGAGCAGCCTCATCAGAAAGAAGCTGCTTCCCGAGGCCTCTCTGCTCATCACCACGAGAC
CTGTGGCCCTGGAGAACTGCAGCACTTGCTGGACCATCCTCGGCATGTGGAGATCCTGGGTTTCTCCGAGGCCA
AAAGGAAAGAGTACTTCTTCAAGTACTTCTCTGATGAGGCCAAGCCAGGGCAGCCTTCAGTCTGATTCAGGAGA
ACGAGGTCTCTTACCATGTGCTTTCATCCCCCTGGTCTGCTGGATCGTGTGCACTGGACTGAAACAGCAGATGG
AGAGTGGCAAGAGCCTTGCCAGACATCCAAGACCACCACCGCGGTGTACGTCTTCTTCCCTTTCCAGTTTGCTGC
AGCCCCGGGGAGGGAGCCAGGAGCACGGCCTCTGCGCCACCTCTGGGGGCTCTGCTCTTTGGCTGCAGATGGAA
TCTGGAACCAGAAAATCCTGTTTGAGGAGTCCGACCTCAGGAATCATGGACTGCAGAAGGCGGATGTGTCTGCTT
TCCTGAGGATGAACCTGTTCCAAAAGGAAGTGGACTGCGAGAAGTTCTACAGCTTCATCCACATGACTTTCCAGG
AGTTCTTTGCCGCCATGTACTACCTGCTGGAAGAGGAAAAGGAAGGAAGGACGAACGTTCCAGGGAGTCGTTTGA
AGCTTCCCAGCCGAGACGTGACAGTCTTCTGGAACACTATGGCAAATTCGAAAAGGGGTATTTGATTTTTGTG
TACGTTTCTCTTTGGCCTGGTAAACCAGGAGAGGACCTCTACTTGGAGAAGAAATTAAGTTGCAAGATCTCTC
AGCAAATCAGGCTGGAGCTGCTGAAATGGATTGAAGTGAAAGCCAAAGCTAAAAAGCTGCAGATCCAGCCAGCC
AGCTGGAATTGTTCTACTGTTTGTACGAGATGCAGGAGGAGGACTTCGTGCAAAGGGCCATGGACTATTTCCCCA
AGATTGAGATCAATCTCTCCACCAGAATGGACCACATGGTTTCTTCCCTTTGCAATTGAGAACTGTCATCGGGTGG
AGTCACTGTCCCTGGGGTTTCTCCATAACATGCCCAAGGAGGAAGAGGAGGAGGAAAAGGAAGGCCGACACCTTG
ATATGGTGCAGTGTGTCCTCCCAAGCTCCTCTCATGCTGCCTGTTCTCATGGATTGGTGAACAGCCACCTCACTT
CCAGTTTTTGCCGGGGCCTCTTTTCAAGTTCTGAGCACCAGCCAGAGTCTAACTGAATTGGACCTCAGTGACAATT
CTCTGGGGGACCCAGGGATGAGAGTGTTGTGTGAAACGCTCCAGCATCCTGGCTGTAACATTCGGAGATTGTGGT
TGGGGCGCTGTGGCCTCTCGCATGAGTGCTGCTTCGACATCTCCTTGGTCTCAGCAGCAACCAGAAGCTGGTGG
AGCTGGACCTGAGTGACAACGCCCTCGGTGACTTCGGAATCAGACTTCTGTGTGTGGGACTGAAGCACCTGTTGT
GCAATCTGAAGAAGCTCTGGTTGGTCAGCTGCTGCCTCACATCAGCATGTTGTCAGGATCTTGTCATCAGTATTGA
GCACCAGCCATTCCCTGACCAGACTCTATGTGGGGGAGAATGCCTTGGGAGACTCAGGAGTCGCAATTTTATGTG
AAAAAGCCAAGAATCCACAGTGTAACCTGCAGAACTGGGGTTGGTGAATTCTGGCCTTACGTCACTGTGTTGT
CAGCTTTGTCTCGGTACTCAGCACTAATCAGAATCTCACGCACCTTTACCTGCGAGGCAACACTCTCGGAGACA
AGGGGATCAAACACTCTGTGAGGGACTCTTGACCCCGACTGCAAGCTTCAGGTGTTGGAATTAGACAACCTGCA

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FIGURE 1191B

ACCTCACGTCACACTGCTGCTGGGATCTTTCCACACTTCTGACCTCCAGCCAGAGCCTGCGAAAGCTGAGCCTGG
GCAACAATGACCTGGGCGACCTGGGGGTTCATGATGTTCTGTGAAGTGCTGAAACAGCAGAGCTGCCTCCTGCAGA
ACCTGGGGTTGTCTGAAATGTATTTCAATTATGAGACAAAAAGTGCGTTAGAAACACTTCAAGAAGAAAAGCCTG
AGCTGACCGTCGTCTTTGAGCCTTCTTGGTAGGAGTGGAACGGGGCTGCCAGACGCCAGTGTTCTCCGGTCCCT
CCAGCTGGGGGCCCTCAGGTGGAGAGAGCTGCGATCCATCCAGGCCAAGACCACAGCTCTGTGATCCTTCCGGTG
GAGTGTCGGAGAAGAGAGCTTGCCGACGATGCCTTCCTGTGCAGAGCTTGGGCATCTCCTTTACGCCAGGGTGAG
GAAGACACCAGGACAATGACAGCATCGGGTGTTGTTGTCATCACAGCGCCTCAGTTAGAGGATGTTCTCTTGGT
GACCTCATGTAATTAGCTCATTCAATAAAGCACTTTCTTTATTTT

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FIGURE 1192

MASTRCKLARYLEDLEDVDLKKFKMHLEDYPPQKGCIPLRGQTEKADHVDLATLMIDFN GEEKAWAMAVWIFAA
INRRDLYEKAKRDEPKWGS DNARVSNPTVICQEDSIEEEWMGLLEYLSRISICKMKKDYRK KYRKYVRSRFQCIE
DRNARLGESVSLNKRYTRLRLIKEHRSQQEREQEELLAIGKTKTCESPVSP IKMELLFDPDDEHSEPVHTVVFQGA
AGIGKTI LARKMMLDWASGTLYQDRFDYLFYIHCREVSLVTQ RSLGDLIMSCCPDPNPP IHKIVRKPSRILFLMD
GFDELQGA FDEHIGPLCTDWQKAERGDILLSS LIRKKLLPEASLLITTRPVALEKLQHLLDHPRHVEILGFSEAK
RKEYFFKYFSDEAQAARAAFS LIQENEVLFTMCFIPLVCWIVCTGLKQQMESGKSLAQT SKTTTAVYVFFLSSLLQ
PRGGSQEHLCAHLWGLCSLAADGIWNQKILFEESDLRNHGLQKADVSAFLRMNLFQKEVDCEKFYSFIHMTFQE
FFAAMYLL EEEKEGRTNVP GSRLKLP SRDVTV LLENYGF EKGYLIFVVRFLFGLVNQERTSYLEKKLSCKISQ
QIRLELLK WIEVKAKAKKLQIQPSQLELFYCLYEMQEEDFVQ RAMDYFPKIEINLSTRMDH MVSSFCIENCHRVE
SLSLGLF LHNMPKEEEEEKEGRHLD MVQCVLPSSSHAACSHGLVNSHLTSSFCRGLFSVLSTSQSLTELDLSDNS
LGDPGMRVLCETLQHPGCNIRRLWLGRCGLSHECCFDISLVLSSNQKLVELDLSDNALGDFGIRLLCVGLKHLLC
NLKKLWLVS CCLTSACCQDLASVLSTSHSLTRLYVGENALGDSGVAILCEKAKNPQC NLQKLGLVNSGLTSVCCS
ALSSVLSTNQNLTHLYLRGNTLGDKG IKLLCEGLLHPDCKLQVLELDNCNLTS HCCWDLSTLLTSSQSLRKLSLG
NNDLGDLGVMMFCEVLKQQSCLLQNLGLSEMYFNYETKSALET LQEEKPELTVVFEP SW

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FIGURE 1193A

CTGTGGGTCCTCTCTCGGCGCCAGAGCCGCTCTCCGCATCCCAGGACAGCGGTGCGGCCCTCGGCCGGGGCGCCCACT
CCGCAGCAGCCAGCGAGCCAGCTGCCCGTATGACCCGCGCCGGGCGCCGCCGGGCGCTGCCCTCCCACGACATGG
CTGGGCTCCCTGCTGTTGTTGGTCTGTCTCTCTGGCGAGCAGGAGTATCACCGAGGAGGTGTGCGAGTACTGTAGC
CACATGATTGGGAGTGGACACCTGCAGTCTCTGCAGCGGCTGATTGACAGTCAGATGGAGACCTCGTGCCAAATT
ACATTTGAGTTTGTAGACCAGGAACAGTTGAAAAGATCCAGTGTGCTACCTTAAGAAGGCATTTCTCCTGGTACAA
GACATAATGGAGGACACCATGCGCTTCAGAGATAAACACCGCCAATCCCATCGCCATTGTGCAGCTGCAGGAACTC
TCTTTGAGGCTGAAGAGCTGCTTCACCAAGGATTATGAAGAGCATGACAAGGCCTGCGTCCGAACCTTTCTATGAG
ACACCTCTCCAGTTGCTGGAGAAGGTCAAGAATGTCTTTAATGAAACAAAGAATCTCCTTGACAAGGACTGGAAT
ATTTTCAGCAAGAAGTGAACAACAGCTTTGCTGAATGCTCCAGCCAAGATGTGGTGACCAAGCCTGATTGCAAC
TGCTGTACCCCAAAGCCATCCCTAGCAGTGACCCGGCCTCTGTCTCCCTCATCAGCCCCTCGCCCCCTCCATG
GCCCTGTGGCTGGCTTGACCTGGGAGGACTCTGAGGGAAC TGAGGGCAGCTCCCTCTTGCTGGTGAGCAGCCC
CTGCACACAGTGGATCCAGGCAGTGCCAAGCAGCGGCCACCCAGGAGCACCTGCCAGAGCTTTGAGCCGCCAGAG
ACCCAGTTGTCAAGGACAGCACCATCGGTGGCTCACCACAGCCTCGCCCCTCTGTGCGGGCCTTCAACCCCGGG
ATGGAGGATATTCTTGACTCTGCAATGGGCACTAATTGGGTCCCAGAAGAAGCCTCTGGAGAGGCCAGTGAGATT
CCCGTACCCCAAGGGACAGAGCTTTCCCCCTCCAGGCCAGGAGGGGGCAGCATGCAGACAGAGCCCGCCAGACCC
AGCAACTTCCTCTCAGCATCTTCTCCACTCCCTGCATCAGCAAAGGGCCAACAGCCGGCAGATGTAAGTGTCTACA
GCCTTGCCCAGGGTGGGCCCCGTGATGCCCCTGGCCAGGACTGGAATCACACCCCCCAGAAGACAGACCATCCA
TCTGCCCTGCTCAGAGACCCCCCGAGCCAGGCTCTCCAGGATCTCATCTGCGCCCCCAGGCCCTCAGCAAC
CCCTCCACCTCTCTGCTCAGCCACAGCTTTCCAGAAGCCACTCCTCGGGCAGCGTGCTGCCCCCTTGGGGAGCTG
GAGGGCAGGAGGAGCACCCAGGGATCGGACGAGCCCCGAGAGCCAGAAGCAGCACCAAGTGAAGGGGCAGCC
AGGCCCCCTGCCCCGTTTTAACTCCGTTCCCTTTGACTGACACAGGCCATGAGAGGCAGTCCGAGGGATCCTCCAGC
CCGCAGCTCCAGGAGTCTGTCTTCCACCTGCTGGTGCCAGTGTCTATCCTGGTCTTGCTGGCTGTGCGAGGCCTC
TTGTTCTACAGGTGGAGGCGGCGGAGCCATCAAGAGCCTCAGAGAGCGGATTCTCCCTTGAGCAACCAGAGGGG
AGCCCCCTGACTCAGGATGACAGACAGGTGGAAGTCCAGTGATGAGGGGAATTCTAAGCTGGACGCACAGAACAG
TCTCTTCGTGGGAGGAGACATTATGGGGCGTCCACCACCACCCCTCCCTGGCCATCCTCCTGGAATGTGGTCTGC
CCTCCACCAGAGCTCCTGCCTGCCAGGACTGGACCAGAGCAGCCAGGCTGGGGCCCCCTCTGTCTCAACCCGCAGA
CCCTTGACTGAATGAGAGAGGCCAGAGGATGCTCCCCATGCTGCCACTATTTATTGTGAGCCCTGGAGGCTCCCA
TGTGCTTGAGGAAGGCTGGTGAGCCCGGCTCAGGACCCTCTTCCCTCAGGGGCTGCAGCCTCCTCTCACTCCCTT
CCATGCCGGAACCCAGGCCAGGGACCCACCGGCCTGTGGTTTGTTGGGAAAGCAGGGTGCACGCTGAGGAGTGAAA
CAACCCTGCACCCAGAGGGCCTGCCTGGTGCCAAGGTATCCCAGCCTGGACAGGCATGGACCTGTCTCCAGACAG
AGGAGCCTGAAGTTTCGTGGGGCGGGACAGCCTCGGCCTGATTTCCCGTAAAGGTGTGCAGCCTGAGAGACGGGAA
GAGGAGGCCTCTGCACCTGCTGGTCTGCACTGACAGCCTGAAGGGTCTACACCTCGGCTCACCTAAGTCCCTGT
GCTGGTTGCCAGGCCCAGAGGGGAGGCCAGCCCTGCCCTCAGGACCTGCCTGACCTGCCAGTGATGCCAAGAGGG
GGATCAAGCACTGGCCTCTGCCCCCTCCTCCTTCCAGCACCTGCCAGAGCTTCTCCAGCAGGCCAAGCAGAGGCTC
CCCTCATGAAGGAAGCCATTGCACTGTGAACACTGTACCTGCCTGCTGAACAGCCTCCCCCGTCCATCCATGAG
CCAGCATCCGTCCGTCTCCTCCACTCTCCAGCCTCTCCCCAGCCTCCTGCAGTGAAGTGGCCTCACCAGTCGACTGA
GGGAGCCCCCTCAGCCCTGACCTTCTCCTGACCTGGCCTTTGACTCCCCGGAGTGGAGTGGGGTGGGAGAACCTCC
TGGGCCGCCAGCCAGAGCCGCTCTTTAGGCTGTGTTCTTCGCCCAGTTTTCTGCATCTTCCACTTTGACATTCCC
AAGAGGGAAGGGACTAGTGGGAGAGAGCAAGGGAGGGGAGGGCACAGACAGAGAGCCTACAGGGCGAGCTCTGAC
TGAAGATGGGCCTTTGAAATATAGGTATGCACCTGAGGTGAGGGGAGGGTCTGCAGTCCCAAACCCAGCGCAGT
GTCCTTTCCCTGCTGCCGACAGGAACCTGGGGCTGAGCAGGTTATCCCTGTCAGGAGCCCTGGACTGGGCTGCAT
CTCAGCCCCACCTGCATGGTATCCAGCTCCCATCCACTTCTCACCCCTTCTTTCCTCCTGACCTTGGTCAGCAGTG
ATGACCTCCAACCTCTCACCCACCCCTCTACCATCACCTCTAACCAGGCAAGCCAGGGTGGGAGAGCAATCAGGA
GAGCCAGGCCTCAGCTTCCAATGCCTGGAGGGCCTCCACTTTGTGGCCAGCCTGTGGTGCTGGCTCTGAGGCCTA
GGCAACGAGCGACAGGGCTGCCAGTTGCCCTGGGTTCCTTTGTGCTGCTGTGTGCCTCCTCTCCTGCCGCCCTT
TGTCTCCGCTAAGAGACCCTGCCCTACCTGGCCGCTGGGCCCGTGACTTTCCCTTCTGCCCAGGAAAGTGAG
GGTCGGCTGGCCCCACCTTCCCTGTCTGATGCCGACAGCTTAGGGAAAGGGCACTGAAGTGCATATGGGGCTTA
GCCTTCTAGTCACAGCCTCTATATTTGATGCTAGAAAAACATATTTTTAAATGGAAGAAAAATAAAAAGGCATT

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FIGURE 1193B

CCCCCTTCATCCCCCTACCTTAAACATATAATATTTTAAAGGTCAAAAAAGCAATCCAACCCACTGCAGAAGCTC
TTTTTGAGCACTTGGTGGCATCAGAGCAGGAGGAGCCCCAGAGCCACCTCTGGTGTCCCCCAGGCTACCTGCTCA
GGAACCCCTTCTGTTCTCTGAGAACTCAACAGAGGACATTGGCTCACGCACTGTGAGATTTTGTATTTTATACTTG
CAACTGGTGAATTATTTTATAAAAGTCATTTAAATATCTATTTAAAAGATAGGAAGCTGCTTATATATTTAATA
ATAAAAGAAGTGCACAAGCTGCCGTTGACGTAGCTCGAG

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FIGURE 1194

MTAPGAAGRCPPTTWLGSLLLLVCLLASRSITEEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQ
KDPVCYLKKAFLLVQDIMEDTMRFRDNTANPIAIVQLQELSLRLKSCFTKDYEEDKACVRTFYETPLQLLEKVK
NVFNETKNLLDKDWNIFSKNCNNSFAECSSQDVVTKPDCNCLYPKAIPSSDPASVSPHQPLAPSMAPVAGLTWED
SEGTEGSSLLPGEQPLHTVDPGSAKQRPPRSTCQSFEPPEPVPVKDSTIGGSPQPRPSVGAFNPGMEDILDSAMG
TNWVPEEASGEASEIPVPQGTELSRPGGGSMQTEPARPSNFLSASSPLPASAKGQQPADVTATALPRVGPVMP
TGQDWNHTPQKTDHPSALLRDPPEPGSPRISSLRPQALSNPSTLSAQPQLSRSHSSGSVLPLGELEGRRSTRDRT
SPAEPAAAPASEGAARPLPRFNSVPLTDTGHERQSEGSSSPQLQESVFHLLVPSVILVLLAVGGLLFYRWRRRSH
QEPQRADSPLEQPEGSPLTQDDRQVELPV

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FIGURE 1195

CTAAAGTTTTTTCTTTGAATGACAGAACTACAGCATAATGCGTGGCTTCAACCTGCTCCTCTTCTGGGGATGTT
GTGTTATGCACAGCTGGGAAGGGCACATAAGACCCACACGGAAACCAAACACAAAGGGTAATAACTGTAGAGACA
GTACCTTGTGCCAGCTTATGCCACCTGCACCAATACGGTGGACAGTTACTATTGCACTTGCAAACAAGGCTTCC
TGTCCAGCAATGGGCAAAATCACTTCAAGGATCCAGGAGTGCATGCAAAGATATTGATGAATGTTCTCAAAGCC
CCCAGCCCTGTGGTCCTAATCATCCTGCAAAAACCTGTGAGGGAGGTACAAGTGCAGCTGTTTAGATGGTTTCT
CTTCTCCCACTGGAAATGACTGGGTCCCAGGAAAGCCGGGCAATTTCTCCTGTACTGATATCAATGAGTGCCTCA
CCAGCAGGGTCTGCCCTGAGCATTCTGACTGTGTCAACTCCATGGGAAGCTACAGTTGCAGCTGTCAAGTTGGAT
TCATCTCTAGAACTCCACCTGTGAAGACGTGAATGAATGTGCAGATCCAAGAGCTTGCCAGAGCATGCAACTT
GTAATAACACTGTTGGAACTACTCTTGTCTTCTGCAACCCAGGATTTGAATCCAGCAGTGGCCACTTGAGTTGCC
AGGGTCTCAAAGCATCGTGTGAAGATATTGATGAATGCACTGAAATGTGCCCCATCAATTCAACATGCACCAACA
CTCCTGGGAGCTACTTTTGCACCTGCCACCCTGGCTTTGCACCAAGCAGTGGACAGTTGAATTTACAGACCAAG
GAGTGGAAATGTAGAGATATTGATGAGTGGCGCAAGATCCATCAACCTGTGGTCCTAATTCTATCTGCACCAATG
CCCTGGGCTCCTACAGCTGTGGCTGCATTGTAGGCTTTCATCCCAATCCAGAAGGCTCCCAGAAAGATGGCAACT
TCAGCTGCCAAAGGGTTCTCTTCAAATGTAAGGAAGATGTGATACCCGATAATAAGCAGATCCAGCAATGCCAAG
AGGGAACCGCAGTGAAACCTGCATATGTCTCCTTTTGTGCACAAATAAATAACATCTTCAGCGTTCTGGACAAAG
TGTGTGAAAATAAAACGACCGTAGTTTCTCTGAAGAATACAACCTGAGAGCTTTGTCCCTGTGCTTAAACAAATAT
CCATGTGGACTAAATTCACCAAGGAAGAGACGTCTCCTCGGCCACAGTCTTCTGGAGAGTGTGGAAAGCATGA
CACTGGCATCTTTTGGAAACCTCAGCAATGTCACTCCGGCTGTTGCGGCGGAATACTTAGACATTGAGAGCA
AAGTTATCAACAAAGAATGCAGTGAAGAGAATGTGACGTTGGACTTGGTAGCCAAGGGGGATAAGATGAAGATCG
GGTGTTCACAAATTGAGGAATCTGAATCCACAGAGACCCTGGTGTGGCTTTTGTCTCCTTTGTGGGCATGGAAT
CGGTTTTTAAATGAGCGCTTCTTCCAAGACCACCAGGCTCCCTTGACCACCTCTGAGATCAAGCTGAAGATGAATT
CTCGAGTCGTTGGGGGCATAATGACTGGAGAGAAAGAAAGACGGCTTCTCAGATCCAATCATCTACACTCTGGAGA
ACGTTTCAGCCAAAGCAGAAGTTTGAGAGGGCCATCTGTGTTTCTGGAGCACTGATGTGAAGGGTGGAAAGATGGA
CATCCTTTGGCTGTGTGATCCTGGAAGCTTCTGAGACATATACCATCTGCAGCTGTAATCAGATGGCAAAATCTTG
CCGTTATCATGGCGTCTGGGGAGCTCACGATGGACTTTTCTTGTACATCATTAGCCATGTAGGCATTATCATCT
CCTTGGTGTGCCCTCGTCTTGGCCATCGCCACCTTTCTGCTGTGTGCTCCATCCGAAATCACAACACCTACCTCC
ACCTGCACCTCTGCGTGTGTCTCCTCTTGGCGAAGACTCTCTTCTCGCCGGTATACACAAGACTGACAACAAGA
CGGGCTGCGCCATCATCGCGGGCTTCTGCACTACCTTTTCTTGCCTGCTTCTTCTGGATGCTGGTGGAGGCTG
TGATACTGTTCTTGATGGTCAGAAACCTGAAGGTGGTGAATTACTTCAGCTCTCGCAACATCAAGATGCTGCACA
TCTGTGCCCTTTGGTTATGGGCTGCCGATGCTGGTGGTGGTGAATCTCTGCCAGTGTGCAGCCACAGGGCTATGGAA
TGCATAATCGCTGCTGGCTGAATACAGAGACAGGGTTCATCTGGAGTTTCTTGGGGCCAGTTTGCACAGTTATAG
TGATCAACTCCCTTCTCCTGACCTGGACCTTGTGGATCCTGAGGCAGAGGCTTTCAGTGTAAATGCCGAAGTCT
CAACGCTAAAAGACACCAGGTTACTGACCTTCAAGGCCTTTGCCAGCTCTTCATCCTGGGCTGCTCCTGGGTGC
TGGGCATTTTTTCAGATTGGACCTGTGGCAGGTGTGATGGCTTACCTGTTTACCATCATCAACAGCCTGCAGGGGG
CCTTCATCTTCTCATCCACTGTCTGCTCAACGGCCAGGTACGAGAAGAATACAAGAGGTGGATCACTGGGAAGA
CGAAGCCCAGCTCCCAGTCCCAGACCTCAAGGATCTTGCTGTCTCCTCCATGCCATCCGCTTCCAAGACGGGT**TAA**
GCCTTTCTTGCTTTCAAATATGCTATGGAGCCACAGTTGAGGACAGTAGTTTCTTGCAGGAGCCTACCCTGAAAT
CTCTTCTCAGCTTAACATGGAAATGAGGATCCCACCAGCCCCAGAACCCTCTGGGGAAGAATGTTGGGGGGCCGTC
TTCTGTGGTTGTATGCACTGATGAGAAATCAGACGTTTCTGCTCCAAACGACCATTTTATCTTCGTGCTCTGCA
ACTTCTTCAATTCCAGAGTTTCTGAGAACAGACCCAAATTCAATGGCATGACCAAGAACACCTGGCTACCATTTT
GTTTTCTCCTGCCCTTGTGGTGCATGGTTCTAAGCGTGCCCTCCAGCGCTATCATACGCTGACACAGAGAA
CCTCTCAATAAATGATTTGTGCGCTGTCTGACTGATTTACCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1196

MRGFNLLLFWGCCVMHSEWEGHIRPTRKPNTKGNNCRDSTLCPAYATCTNTVDSYYCTCKQGFLSSNGQNHFKDPG
VRCKDIDECSSQSPQPCGPNSSCKNLSGRYKCSCLDGFSSPTGNDWVPGKPGNFSCDINECLTSRVCPEHSDCVN
SMGSYSCSCQVGFISRNSTCEDVNECADPRACPEHATCNNTVGNYSFCNPGFESSGHLSCQGLKASCEDIDEC
TEMCPINSTCTNTPGSYFCTCHPGFAPSSGQLNFTDQGVCECRDIDECRQDPSTCGPNSICTNALGSYSCGCIVGF
HPNPEGSQKDGNFSCQRVLFKCKEDVIPDNKQIQQCQEGTAVKPAYVSFCAQINNIFSVLDKVCENKTTVVSLKN
TTESFVPVLKQISMWTKFTKEETSSLATVFLESVESMTLASFWKPSANVTPAVRAEYLDIESKVINKECSEENV
LDLVAKGDKMKIGCSTIEESESTETTGVAFVSFVGMEVSLNERFFQDHQAPLTTSEIKLKMNSRVVGGIMTGEKK
DGFSDPIIYTLENVQPKQKFERPICVSWSTDVKGGRWTSFGCVILEASETYTICSCNQMANLAVIMASGELTMDF
SLYIISHVGIIISLVCLVLAIATFLLCRSIRNHNTYLHLHLVCVCLLLAKTLFLAGIHKTDNKTGCAIIAGFLHYL
FLACFFWMLVEAVILFLMVRNLKVVNYFSSRNKMLHICAFGYGLPMLVVVISASVQPQGYGMHNRCLNTETGF
IWSFLGPVCTVIVINSLLLWTWLWILRQLSSVNAEVSTLKDTRLLTFKAFAQLFILGCSWVLGIFQIGPVAGVM
AYLFTIINSLQGAFFLIHCLLNGQVREEYKRWITGKTKPSSQSQTSRILLSSMPSASKTG

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FIGURE 1197A

CATGGCGGCGACTGCGGCAAAGCGAGAGCCTCGGAGACGCCGCTGCCGCCAGCACAGCCGGAGATCTGAGCCGAC
ACTGGGGGCGAGTCCGCGAGCCCCGCACTCTCTCGATGAGTCGGAGAAGTCCCGTTGTATCAGAGTAAGATGGACG
GTAGCTTTGATTGTGATTGTGGTGAGCTGGAGCCACCTGATCACTAACAAAAGACATCTTCTGTTAAACCAACAGC
CGCCAGGCTTCCTGTTGAAATAAATATATAGCAACAAAGGAAAAAAGAAGCAAAACGGAAATAGTGCTTACCAG
CACCTTAGAATGATGCTGCTCAGGACCAGTCCAACACTGAATGTATCTGCACTGTGAGGAGAATGTTTCATAGAAG
CCTGTTGTGTGCATATTTTATTCACTTTTTGTAAATGTTAAATCGTTTAGCACGGTAATCTGAGTGCACAGTATG
TCATTTCAATCCGTTTGAGTTTCTTGTTCGTTAAATGTCTGCAGAGTTGCTGCCCCCTTCTTGAACATAGAGT
ACTGCAATCTTTTTAATTCTCAATATGAATAGAGCTTTTTGAGCTTTAAATCTAAGGGGAACTCGACAGGCCTGT
TTGGCATATGCAATGAACATCAAGAAACCATCTTGCTGTGGAAGCATAATTATTTTTCTTCTCCCTTTTTGAAAG
ATCTTTCCTTTTGATGCCAGTTTTCTTCTTGTACACAAGTTCAATTTGAAAGGAAAAGGCAATAGTAAGGGT
TTCAAAATGGGCAGAGAAATTTGAAAGTCTCATGAACATTGATGGTTTTGATCTGGGTTCTAGGTATATGGACTTA
AAACCATTTGGGTTGTGGAGGCAATGGCTTGGTTTTTCTGCTGTAGACAATGACTGTGACAAAAGAGTAGCCATC
AAGAAAATTGTCCTTACTGATCCCCAGAGTGTCAAACATGCTCTACGTGAAATCAAAATTATTAGAAGACTTGAC
CATGATAACATTGTGAAAGTGTGAGATTCTTGGTCCCAGTGGGAAGCCAATTAACAGACGATGTGGGCTCTCTT
ACGGAACCTGAACAGTGTGTTACATTGTTTACAGGAGTACATGGAGACAGACTTGGCTAATGTGCTGGAGCAGGGCCCT
TTACTGGAAGAGCATGCCAGGCTTTTCATGTATCAGTGTCTACGGGGGCTCAAGTATATTCACTCTGCAAATGTA
CTGCACAGAGATCTCAAACCAGCTAATCTTTTCATTAATACGGAAGACTTGGTGCTGAAGATAGGTGACTTTGGT
CTTGACCGGATCATGGATCCTCATTATTCCCATAAGGGTCACTTTCTGAAGGATTGGTTACTAAATGGTACAGA
TCTCCACGTCTTTTACTTTCTCCTAATAATTATACTAAAGCCATTGACATGTGGGCTGCAGGCTGCATCTTTGCT
GAAATGCTGACTGGTAAACCCTTTTTGTCAGGTGCACATGAACCTGAACAGATGCAGCTGATTTTAGAATCTATT
CCTGTTGTACATGAGGAAGATCGTCAGGAGCTTCTCAGCGTAATTCCAGTTTACATTAGAAATGACATGACTGAG
CCACACAAACCTTTAACTCAGCTGCTTCCAGGAATTAGTCGAGAAGCACTGGATTTCTGGAACAAATTTTGACA
TTTAGCCCCATGGATCGGTTAACAGCAGAAGAAGCACTCTCCCATCCTTACATGAGCATATATTCTTTTCCAATG
GATGAGCCAATTTCAAGCCATCCTTTTCATATTGAAGATGAAGTTGATGATATTTTGCTTATGGATGAAACTCAC
AGTCACATTTATAACTGGGAAAGGTATCATGATTGTGAGTTTTTACAGCATGATTGGCCTGTACATAACAACCTT
GATATTGATGAAGTTTACGCTTGATCCAAGAGCTCTGTCCGATGTCACTGATGAAGAAGAAGTACAAGTTGATCCC
CGAAAAATATTTGGATGGAGATCGGGAAAAGTATCTGGAGGATCCTGCTTTTGATACCAATTACTCTACTGAGCCT
TGTTGGCAATACTCAGATCATCATGAAAACAAATATTGTGATCTGGAGTGTAGCCATACTTGTAACACAAAACG
AGGTCATCATCATATTTAGATAACTTAGTTTGAGAGAGAGTGAAGTTAACCACTTACTATGAACCCAAGCTTATT
ATAGATCTTTCCAATTGGAAAGAACAAAGCAAGAAAAATCTGATAAGAAAGGCAAATCAAAATGTGAAAGGAAT
GGATTGGTTAAAGCCCAGATAGCGCTAGAGGAAGCATCACAGCAACTGGCTGGAAAAGAAAGGGAAAAGAATCAG
GGATTTGATTTTGATTCTTTATTGTCAGGAACATTCAGCTTAGTTCCAGCATGAGCCTACTGATGTTGTTGAT
AAATTAATGACTTGAATAGCTCAGTGTCCCACTAGAATTGAAAAGTTTGATATCAAAGTCAGTAAGCCAAGAA
AAACAGGAAAAAGGAATGGCAAATCTGGCTCAATTAGAAGCCTTGTAACAGTCTTCTTGGGACAGCCAGTTTGTG
AGTGGTGGGGAGGACTGTTTTTTCATAAATCAGTTTTGTGAGGTAAGGAAGGATGAACAAGTTGAGAAGGAAAAC
ACTTACACTAGTTACTTGGACAAGTTCTTTAGCAGGAAAGAAGATACTGAAATGCTAGAAACTGAGCCAGTAGAG
GATGGGAAGCTTGGGGAGAGAGGACATGAGGAAGGATTTCTGAACAACAGTGGGGAGTTCTCTTTAACAAGCAG
CTCGAGTCCATAGGCATCCACAGTTTCACAGTCCAGTTGGGTCAACCTTAAGTCAATACAGGCCACATTAACA
CCTTCTGCTATGAAATCTTCCCTCAAATTCCTCATCAAACATACAGCAGCATTCTGAAACATCTGAACATAAAC
ACTCAGCAGACATTTATCTTTGTATTCTTCATGAAATGTGTTTTGTCCTTTTTTTTATTACTAGTGTTTAAGTCATT
TTTTACTTGAATCAGATGGTGTGATTTAGTAAGGATTTTATGAGTTCTTGTTTTTTAAATCCAGACTTTCTTTT
TCTACATGTGAGATAGTTTTTCAATTTAACTGGCATGTCATTTGCACACAAAAATAAAGACTAGAGCAAAAAATAG
CAACGCAGGAGGAGAAAAGAAATGCACTAAGACAAGAACATTCTCTCATAGAACATTGATCTGTTTTTACAGGAAA
CAAACCTTGCCTTGAAATTTACACAGTGAGACTGTACATAATTGCATGAAAATAGCTATTTTTTTTCTTAAGACAT
TTTTCAATTCATGAATATTTTCAAGTTTTTCTACTGTACACATTTCTTAAACACATGATACCAGCAGCAACTGA
AAATGAATGCCGAATTTGGTACACATGTGTTATCTACCTCAAGGTAACAAGAGTATGTGGCAAAACATATACCAC
CCATAGTGCTTCACAAAATGCACTTCTATTTAGCCAGCGTTTATTGTAGTAACTATTCTTAATAAAACTCACTC
ACTGTTTATAAATGTTCTGGTATGCATTCTTTATAGTGAAGTGTTAATACATCACATCTTATTTATTTTAGCAAA

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FIGURE 1197B

TCAGTATATTTTCTGTATTTAATTATAAAAAATTAACCTTAGTTTTTAAAATTTATTTGCAAATATACTTTTTCCA
TTTGGCACTATGGTTTGTTGCCTACCTAGCTGCATCTATAATGTCAGCTTATCCTAAGGCTGTCCACGTACTTAA
TTTACTTAAGTGTTTCATTTTAAGTAACGTGCTCACTGTGTATAGGAATTTGTATTTTGGAGGTGCTTGATCTATC
TACAAAGAAAAATTAATTAGGAATTACTTTATTATAAAAATGCTCCTAGAAGTCTTAATTGTGTTTATTTTTTAAA
AAAACAAATGTTAGACTTGTGTGCATGGAAGTAATTAAGGTACATCATTATTGTAGTTTGAAAGTTGTACATGAT
AAGACATTTTGTCTTTTACTGTATGTTTTTACTGAATGATCTATTCCCATCCCAAGGCAAGCATGAATAAAATTA
GGTTAAACGTAGCATGTGGCATCGCAGTCTCTTAGAATTTGTTTCATCTATTTTATTTTATTGAATACTGTCTGT
ATCTTTGGTTATCCTGTTTGAAGAAAAAGGACAAATAAAACATGGCCAGCAAATACAAAAAAAAAAAAA

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FIGURE 1198

MAEKFESLMNIHGFDLGSRYMDLKPLGCGGNGLVFSAVDNDCKRVAIKKIVLTD PQSVKHALREIKIIRRLDHD
NIVKVFEILGPSGSQLTDDVGSLTELNSVYIVQEYMETDLANVLEQGPLEEHARLFMYQLLRGLKYIHSANVLH
RDLKPANLFINTEDLVLKIGDFGLARIMDPHYSHKGHLSEGLVTKWYRSPRLLSPNNYTKAIDMWAAGCIFAEM
LTGKTLFAGAHELEQMQLILESIPVVHEEDRQELLSVIPVYIRNDMTEPHKPLTQLLPGISREALDFLEQILTFS
PMDRLTAEELSHPYMSIYSFPMDEPISSHPFHIEDEVDDILLMDETHSHIYNWERYHDCQFSEHDWVPVHNNFDI
DEVQLDPRALSDVTDEEEVQVDPRKYLDGDREKYLEDPAFDTNYSTEPWCWQYSDHHENKYCDLECSHTCNYKTRS
SSYLDNLVWRESEVNHYEYEPKLIIDLSNWKEQSKEKSDKKGKSKCERNGLVKAQIALEEASQQLAGKEREKNQGF
DFDSFIAGTIQLSSQHEPTDVVDKLNLDLSSVSQLELKSLSKSVSQEKQEKGMANLAQLEALYQSSWDSQFVSG
GEDCFFINQFCEVRKDEQVEKENTYTSYLDKFFSRKEDTEMLETEPVEDGKLGERGHEEGFLNNSGEFLFNKQLE
SIGIPQFHSFVGSPLKSIQATLTPSAMKSSPQIPHQTYSSILKHLN

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FIGURE 1199

GCATTCCCCACACAACACCCACACTCAGCCACTGCGGGCGAGGAGGGCACGAGGCCAGGTTCCCAAGAGCTCAGG
TTTGTCTTGGAACCCAGATGGACTGTGGCCGGGCAAGTGGATCACAGGCCTGGCCAGCCTAGGAGTTGCCACATG
TGAGGGGCGGAGGGGCTCAAGGAGGGGAACATCGGGGAGAGGAGCCTACTGGGTGGAGGCTGGGGGTCCCAGCAG
GAAATGGTGAGACAAAGGGCGCTGGCTGGCAGGAAGACAGCACAGGAAGGTCCTAGAGGTTTCTCAGTGCAGCTG
GACTCTCCTGGAGACCTTCACACACCCTGACATCTGGGCCCCGTTCCACGAGGGTGCTTTTCACTGGTCTGCACCA
TGGCCCAGGCCCTGGGATTTTGAACAGCTCCGCAGGTGAATGAAAGGAACATGGAGCTGATCCAGGACATCTCTC
GCCCCGCACTGGAGTACGTGAAGGGGTCCCGCTCATCAAGTACTTTGCAGAGGCACTGGGGCCCCCTGCAGAGCT
TCCAGGCCCGGCCTGATGACCTGCTCATCAGCACCTACCCCAAGTCCGGCACCACCTGGGTGAGCCAGATTCTGG
ACATGATCTACCAGGGCGGTGACCTGGAAAAGTGTACCGAGCTCCCATCTTCATGCGGGTGCCCTTCCTTGAGT
TCAAAGTCCCAGGGATTCCCTCAGGGATGGAGACTCTGAAAAACACACCAGCCCCACGACTCCTGAAGACACACC
TGCCCCTGGCTCTGCTCCCCCAGACTCTGTTGGATCAGAAGGTCAAGGTGGTCTATGTTGCCCGCAACGCAAAGG
ATGTGGCGGTTTCCTACTACCACTTCTACCACATGGCCAAAGTGTACCCTCACCTGGGACCTGGGAAAGCTTCC
TGGAGAAGTTCATGGCTGGAGAAGTGTCTATGGGTCCTGGTACCAGCACGTGCAAGAGTGGTGGGAGCTGAGCC
GCACCCACCCGTGTTCTCTACCTCTTCTATGAAGACATGAAGGAGAACCCCAAAAGGGAGATTCAAAAGATCCTGG
AGTTTGTGGGGCGCTCCCTGCCAGAGGAGACTGTGGACCTCATGGTTGAGCACACGTCGTTCAAGGAGATGAAGA
AGAACCCTATGACCAACTACACCACCGTCCGCCGGGAGTTCATGGACCACAGCATCTCCCCCTTCATGAGGAAAG
GCATGGCTGGGGACTGGAAGACCACCTTCACCGTGGCGCAGAATGAGCGCTTCGATGCGGACTATGCGGAGAAGA
TGGCAGGCTGCAGCCTCAGCTTCCGCTCTGAGCTGTGAGAGGGGTTCTGGAGTCACTGCAGAGGGAGTGTGCGA
ATCAAGCCTGACCAAGAGGCTCCAGAATAAAGTATGATTTGTGTTT

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FIGURE 1200

MELIQDISRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLSTYPKSGTTWVSQILDMIYQGGDLEKCHRAPI
FMRVPFLEFKVPGIPSGMETLKNTAPARLLKTHLPLALLPQTLLDQKVKVYVARNAKDVAVSYYHFYHMAKVYP
HPGTWESFLEKFMAGEVSYGSWYQHVOEWELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDLMVE
HTSFKEMKKNPMTNYTTVRREFMDHSISPFRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL

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FIGURE 1201

GGGATACCTTGTTTATAGTACCTTCTCTTTGCCAGTCCATCTTCAAATTGGAATTATAGAAAAGTAGAGGGAGGGA
TAGTCTACCGTCTCTCACTGGATTGGTGCCACCTAAAAACATTGTT**ATG**CTGGAAATGCTAGAATATAATCACTAT
CAGGTGCAGACCCACCTCGAAAACCCCAACCAAGTACCACATACAGCAAGCCCAACGGCAGCAGGTAAAGCAGTAC
CTTTCTACCACTTTAGCAAATAAACATGCCAACCAAGTCCTGAGCTTGCCATGTCCAAACCAGCCTGGCGATCAT
GTCATGCCACCGGTGCCGGGGAGCAGCGCACCCAAACAGCCCCATGGCTATGCTTACGCTTAACTCCAACCTGTGAA
AAAGAGGGATTTTATAAGTTTGAAGAGCAAAACAGGGCAGAGAGCGAGTGCCAGGCATGAACACACATTCACGA
GCGTCTGTATGCAGATGGATGATGTAATCGATGACATCATTAGCCTAGAATCAAGTTATAATGAGGAAATCTTG
GGCTTGATGGATCCTGCTTTGCAAATGGCAAATACGTTGCCTGTCTCGGGAACTTGATTGATCTTTATGGAAAC
CAAGGTCTGCCCCACCAGGCCTCACCATCAGCAACTCCTGTCCAGCCAACCTTCCCAACATAAAAAGGGAGCTC
ACAGCGTGTATTTTTCCACAGAGTCTGAAGCAAGAGCACTGGCCAAAGAGAGGCAGAAAAAGGACAATCACAAC
CTGATTGAACGAAGAAGAAGATTTAACATAAATGACCGCATTAAGAAGCTAGGTACTTTGATTCCCAAGTCAAAT
GATCCAGACATGCGCTGGAACAAGGGAACCATCTTAAAGCATCCGTGGACTATATCCGAAAGTTGCAACGAGAA
CAGCAACGCGCAAAAGAAGCTTGAAAACCGACAGAAGAACTGGAGCACGCCAACCGGCATTTGTTGCTCAGAATA
CAGGAACCTGAAATGCAGGCTCGAGCTCATGGACTTTCCTTATTCCATCCACGGGTCTCTGCTCTCCAGATTTG
GTGAATCGGATCATCAAGCAAGAACCCGTTCTTGAGAACTGCAGCCAAGACCTCCTTCAGCATCATGCAGACCTA
ACCTGTACAACAACCTCTCGATCTCACGGATGGCACCATCACCTTCAACAACAACCTCGGAACTGGGACTGAGGCC
AACCAAGCCTATAGTGTCCCCACAAAAATGGGATCCAAACTGGAAGACATCCTGATGGACGACACCCTTTCTCCC
GTCGGTGTCACTGATCCACTCCTTTCCTCAGTGTCCCCGGAGCTTCCAAAACAAGCAGCCGGAGGAGCAGTATG
AGCATGGAAGAGACGGAGCACACTTGTT**TAG**CGAATCCTCCCTGCACTGCATTTCGCACAACTGCTTCCCTTTCTTG
ATTCTAGATTTAATAACTTACCTGAAGGGGTTTTCTTGATAATTTTCCTTTAATATGAAATTTTTTTTCATGCT
TTATCAATAGCCCAGGATATATTTTATTTTATAGAATTTTGTGAAACAGACTTGTATATTCTATTTTACAACCTACA
AATGCCTCCAAAGTATTGTACAAATAAGTGTGCAGTATCTGTGAACTGAATTCACCACAGACTTTAGCTTTCTGA
GCAAGAGGATTTTGCGTCAGAGAAATGTCTGTCCATTTTATTTCAGGGGAACTTGATTTGAGATTTTATGCCT
GTGACTTCCTTGGAATCAAATGTAAAGTTTAATTGAAAGAATGTAAAGCAACCCCCCAAAA

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FIGURE 1202

MLEMLEYNHYQVQTHLENPTKYHIQQAQRQQVKQYLSTTLANKHANQVLSLPCPNQPGDHVMPPVPGSSAPNSPM
AMLTLSNCEKEGFYKFEEQNRAESECPCGMNTHSRASCMQMDVIDDIISLESSYNEEILGLMDPALQMANTLPV
SGNLIDLYGNQGLPPPGLTISNSCPANLPNIKRELTACIFPTESEARALAKERQKKDNHNLIERRRRFNINDRIK
ELGTLIPKSNPDPMRWNGTILKASVDYIRKLQREQQRAKELENRQKKLEHANRHLLLRIQELEMQARAHGLSLI
PSTGLCSPDLVNRIIKQEPVLENCSDLLQHHADLTCTTTLDLTDGTITFNNNLGTGTEANQAYSVP TKMGSKLE
DILMDDTLSPVGVDPLLSVSPGASKTSSRRSSMSMEETEHTC

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FIGURE 1203A

GGCGGCTCGGGACGGAGGACGCGCTAGTGTGAGTGCGGGCTTCTAGAACTACACCGACCCCTCGTGTCTCCCTTC
ATCCTGCGGGGCTGGCTGGAGCGGCCGCTCCGGTGCTGTCCAGCAGCCATAGGGAGCCGCACGGGGAGCGGGAAA
GCGGTGCGGGCCCCAGGCGGGGCGGCCGGGATGGAGCGGGGCCGCGAGCCTGTGGGGAAGGGGCTGTGGCGGCGC
CTCGAGCGGCTGCAGGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGATCAGCATTCTCTAACTTGT
TTGGTGGAGAACCATTGTCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCGATAACAGTCATGTGGAGA
TGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAAATAACACAAAGGCCAATGTCACAAAACCAAAAAGGTGTA
GTGGAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTATGATTGGCTACTTGGGCT
ATTGTAAAGGGGTAGAACCAAAAACCTGAGTGTGAGAGACTGGCAGGAACCGAGTCTCCAGTGAGGGAGGAGCCAG
GAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGTCGGAGAAACTGGACAGCA
CAGACTTCACCAGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGGCTGGATCTCAAAAAGATG
AAAATCTTGCGTTGTATGTTGAAAATCAATTTTCGTGAATTTAACTCAGCAAAGTCTGGCGTGATCAACATTTTG
TTAAGATTTCAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACGGTAGACTTGTTTACCTGG
TGGAGAATCCTGGGGGTTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAACTGGTCCATGCTAATTTTG
GTACTAAAAAAGATTTTGGAGTTTATACACTCCTGTGAATGGATCTATAGTGATTGTCAGAGCAGGGAAAAATCA
CCTTTCAGAAAAGGTTGCAAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATATACATGGACCAGACTAAAT
TTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTGACCCCTTACACACCTGGAT
TCCCTTCTTCAATCACACTCAGTTTCCACCATCTCGGTATCAGGATTGCCTAATATACCTGTCCAGACAATCT
CCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACTGGAAAACAGACTCTACAT
GTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGAAAGAGATAAAAAATCTTA
ACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGGCCAGAGAGATGCATGGG
GCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCAGATGTTCTCAGATATGGTCT
TAAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGCTGGAGACTTTGGATCGGTTGGTG
CCACTGAATGGCTAGAGGGATACCTTTTCGTCCCTGCATTTAAAGGCTTTCACTTATATTAATCTGGATAAAGCGG
TTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCCACTGTTGTATACGCTTATTGAGAAAACAATGCAAAATG
TGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAGTTGAGAAACTCACTTTAG
ACAATGCTGCTTTCCCTTTCTTGCATATTCTGGAATCCAGCAGTTTCTTTCTGTTTTTGCAGAGACACAGATT
ATCCTTATTTGGGTACCACCATGGACACCTATAAGGAACTGATTGAGAGGATTCCCTGAGTTGAACAAAGTGGCAC
GAGCAGCTGCAGAGGTCGCTGGTCAGTTTCGTGATTAACTAACCCTATGATGTTGAATTGAACCTGGACTATGAGA
GGTACAACAGCCAACTGCTTTTCAATTTGTGAGGGATCTGAACCAATACAGAGCAGACATAAAGGAAATGGGCCCTGA
GTTTACAGTGGCTGTATTCTGCTCGTGAGACTTCTTCCGTGCTACTTCCAGACTAACAACAGATTTTCGGGAATG
CTGAGAAAACAGACAGATTTGTGATGAAGAACTCAATGATCGTGTGATGAGAGTGAGATATCACTTCTCTCTC
CCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGCTTCTGGGGCTCCGGCTCTCACACGCTGCCAGCTTTAC
TGGAGAACTTGAACTGCGTAAACAAAATAACGGTGCTTTTAATGAAACGCTGTTTCAAGAACAGTTGGCTCTAG
CTACTTGGACTATTTCAGGGAGCTGCAAATGCCCTCTCTGGTGACGTTTGGGACATTGACAATGAGTTTTTAAATGT
GATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTCTAGACTTGTGCTGATCGTGCTAAATTTTCAGT
AGGGCTACAAAACCTGATGTTAAAATTCCATCCCATCATCTTGGTACTACTAGATGTCTTTAGGCAGCAGCTTTT
AATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGTCCATGATGGAATATTTCC
CTATCTCTAGAATTTTAAAGTGCTTTGTAATGGGAACCTGCCTCTTCCCTGTTGTTGTTAATGAAAATGTCAGAAAC
CAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAAGTGTTTCGCTTACTTTGA
GTGATCCTCCAACCTCATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTCTCCAAATGAGATCTAAGCCT
TTCCATAAGGAATGTAGCAGGTTTCCCTCATTCCTGAAAGAAAACAGTTAACTTTTCAAGAGATGGGCTTGTTTT
TTGCCAATGAGGTCGAAATGGAGGTCCTTCTGCTGGATAAAAATGAGGTTCAACTGTTGATTGCAGGAATAAGGC
CTTAATATGTTAACCTCAGTGTCATTTATGAAAAGAGGGGACCAGAAGCCAAAGACTTAGTATATTTTCTTTTCC
TCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAAAGCACATTGAAAGAGAAC
CAGTTTCAGGTGTTTGTGTCAGACTCAGTTTGTGAGACTTTTAAAGAATAATATGCTGCCAAATTTTGGCCAAAG
TGTTAATCTTAGGGGAGAGCTTTCTGTCCTTTTGGCACTGAGATATTTATTGTTTATTTATCAGTGACAGAGTTC
ACTATAAATGGTGTTTTTTTTAATAGAATATAATTATCGGAAGCAGTGCCCTCCATAATTATGACAGTTATACTGT
CGGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCAACAGATACTGGAAGTTTGCATTTATGGTCAAC

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FIGURE 1203B

ACTTAAGGGTTTTAGAAAACAGCCGTCAGCCAAATGTAATTGAATAAAGTTGAAGCTAAGATTTAGAGATGAATT
AAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTTCTAAATGCAGTGAATTG
TGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTTTATAGCTCAGTTTATCCA
AGGTGTAACCTCTAATTCCCATTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAACACATTATCGGGAGCAGTG
TCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCGGAGACAGTGATCTCCATAT
GTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTTTCCATAATTTTCTTCATGCAATGACATCTTCAAAG
CTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCCTATCTTTTAGTTTTAGTTGCAGAAACA
TTTTGTGGTCATTAAAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTACTACAAAATTTGAAATTTAG
CTTGGGTTTTTGTACCTTTATGGTTTCTCCAGGTCCTCTACTTAATGAGATAGCAGCATAACATTTATAATGTTT
GCTATTGACAAGTCATTTTAATTTATCACATTATTTGCATGTTACCTCCTATAAACTTAGTGCGGACAAGTTTTA
ATCCAGAATTGACCTTTTGACTTAAAGCAGAGGGACTTTGTATAGAAGGTTTGGGGGCTGTGGGGAAGGAGAGTC
CCCTGAAGGTCTGACACGTCTGCCTACCCATTCGTGGTGATCAATTAAATGTAGGTATGAATAAGTTCGAAGCTC
CGTGAGTGAACCATCATATAAACGTGTAGTACAGCTGTTTGTATAGGGCAGTTGGAAACGGCCTCCTAGGGAAA
AGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTCACTTGAATGTGTCACTACTCA
CAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGACATTTAGCGTAGCTAAGTGAA
AAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAAAGCATGTGGCATGTTTCATCGT
ATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAAAACCTTTTCTACAGTTAGGG
TTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCCTGAATGAAATATCAGACTAGTGACAA
GCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGTAGGGCCTTTTGGAGGTAAAGGTATA

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FIGURE 1204

MMDQARSASFNLFGGEPLSYTRFSLARQVDGDN SHVEMKLAVDEEENADNNTKANVTKPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDFTSTIKLLNEN
SYVPREAGSQKDENLALYVENQFREFKLSKVWRDQH FVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA
ATVTGKLVHANFGTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPGFPSFNHTQFPSPRSSGLPNIPVQTISRAAA EKLFGNMEGDCPSDWKTDSTCRMVTSSESKNVKL
TVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGA AKSGVGTALLLKL AQMFSDMV LKDG FQPSRSIIF
ASWSAGDFGSGV GATEWLEGYLSSLHLKAFTYINLDKAVLGT SNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTD RFVMKKLN
DRVMRVEYHFLSPYVSPKESPFRRHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQ LALATWTIQGAANALS
GDVWDIDNEF

1357/2825
FIGURE 1205

TTGAACTCCTGGAGCCCGTCACCCAGGAAACCGGCCGCAATCGCCGGCCGACCTGAAGCTGGTTTC**ATGG**CAGCC
TCAAAGAAGGCAGTTTTTGGGGCCATTGGTGGGGGCGGTGGACCAGGGCACCAGTTTCGACGCGCTTTTTGGTTTTT
AATTCAAAAACAGCTGAACTACTTAGTCATCATCAAGTAGAAATAAAACAAGAGTTCCCAAGAGAAGGATGGGTG
GAACAGGACCCTAAGGAAATTCTACATTCTGTCTATGAGTGTATAGAGAAAACATGTGAGAAACTTGGACAGCTC
AATATTGATATTTCCAACATAAAAGCTATTGGTGTCTAGCAACCAGAGGGAAACCACTGTAGTCTGGGACAAGATA
ACTGGAGAGCCTCTCTACAATGCTGTGGTGTGGCTTGATCTAAGAACCAGTCTACCGTTGAGAGTCTTAGTAAA
AGAATTCCAGGAAATAATAACTTTGTCAAGTCCAAGACAGGCCTTCCACTTAGCACTTACTTCAGTGCAGTGAAA
CTTCGTTGGCTCCTTGACAATGTGAGAAAAGTTCAAAAGGCCGTTGAAGAAAACGAGCTCTTTTTGGGACTATT
GATTCATGGCTTATTTGGAGTTTGACAGGAGGAGTCAATGGAGGTGTCCACTGTACAGATGTAACAAATGCAAGT
AGGACTATGCTTTTCAACATTCACTTTTGAATGGGATAAACAACCTCTGCGAATTTTTTGAATTCCAATGGAA
ATTCTTCAAATGTCCGGAGTTCTTCTGAGATCTATGGCCTAATGAAAGCTGGGGCCTTGGAAGGTGTGCCAATA
TCTGGGTGTTTAGGGGACCAGTCTGCTGCATTGGTGGGACAAATGTGCTTCCAGATTGGACAAGCCAAAAATACG
TATGGAACAGGATGTTTCTTACTATGTAATACAGGCCATAAGTGTGTATTTTCTGATCATGGCCTTCTCACCACA
GTGGCTTACAACTTGGCAGAGACAAACCAGTATATTATGCTTTGGAAGGTTCTGTAGCTATAGCTGGTGCTGTT
ATTCGCTGGCTAAGAGACAATCTTGGAATTATAAAGACCTCAGAAGAAATTGAAAACTTGCTAAAGAAGTAGGT
ACTTCTTATGGCTGCTACTTCGTCCCAGCATTTCGCGGTTTATATGCACCTTATTGGGAGCCCAGCGCAAGAGGG
ATAATCTGTGGACTCACTCAGTTCACCAATAAATGCCATATTGCTTTTGCTGCATTAGAAGCTGTTTGTTCCAA
ACTCGAGAGATTTTGATGCCATGAATCGAGACTGTGGAATTCCACTCAGTCATTTGCAGGTAGATGGAGGAATG
ACCAGCAACAAAATTCTTATGCAGCTACAAGCAGACATTCTGTATATACCAGTAGTGAAGCCCTCAATGCCCCGAA
ACCACTGCACTGGGTGCGGCTATGGCGGCAGGGGCTGCAGAAGGAGTCGGCGTATGGAGTCTCGAACCCGAGGAT
TTGTCTGCCGTCACGATGGAGCGGTTTGAACCTCAGATTAATGCGGAGGAAAGTGAAATTCGTTATTCTACATGG
AAGAAAAGCTGTGATGAAGTCAATGGGTGGGTTACAACCTCAATCTCCAGAAAGTGGTATTCCA**TAAA**ACCTACCA
ACTCATGGATTCCCAAGATGTGAGCTTTTTACATAATGAAAGAACCAGCAATTCTGTCTCTTAATGCAATGACA
CTATTCATAGACTTTGATTTTTATTTATAAGCCACTTGCTGCATGACCCTCCAAGTAGACCTGTGGCTTAAAAATAA
AGAAAAATGCAGCAAAAAGAATGCTATAGAAATATTTGGTGGTTTTTTTTTTTTTAAACATCCACAGTTAAGTTG
GGCCAGCTACCTTTGGGGGTGACCCCCCATTTGCCATAACATCCTGCTCCATTCCCTCTAAGATGTAGGAAGAA
TTCGGATCCTTACCATTGGAATCTTCCATCGAACATACTCAAACACTTTTGGGCCAGGATTTGAGTCTCTGCATG
ACATATACTTGATTAAAAGGTTATTACTAACCTGTTAAAAATC

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FIGURE 1206

MAASKKAVLGPLVGAVDQGTSSSTRFLVFNSKTAELLSHHQVEIKQEFPREGWVEQDPKEILHSVYECIEKTCEKL
GQLNIDISNIKAIGVSNQRETTVVWDKITGEPLYNAVWLDLRTQSTVESLSKRIPGNNNFVKSKTGLPLSTYFS
AVKLRWLLDNVRKVQKAVEEKRALFGTIDSWLIWSLTGGVNGGVHCTDVTNASRTMLFNIHSLEWDKQLCEFFGI
PMEILPNVRSSSEIYGLMKAGALEGVPI SGCLGDQSAALVGQMCFQIGQAKNTYGTGCFLLCNTGHKCVFSDHGL
LTTVAYKLG RDKP VYYALEGSVAIAGAVIRWLRDNLGI IKTSEEIEKLAKEVGTSYGCYFVPAFSGLYAPYWEPS
ARGIICGLTQFTNKCHIAFAALEAVCFQTREILDAMNRDCGIPLSHLQVDGGMTSNKILMQLQADILYIPVVKPS
MPETTALGAAMAAGAAEGVGVSLEPEDLSAVTMERFEPQINAESEIRYSTWKKAVMKSMGWVTTQSPESGIP

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FIGURE 1207

CACAGCCGGCCGACACCACACCAGCCGGGGAGCCGCCGCCGCCGCCACCTCTGAGCAGCCGGCTGGGAGCGA
GAGCCGACAGCTAGTCTGCAAGCCACCGCTGTGCCCATGGGGAGCCGCGTCTCGCGGGAAGACTTCGAGTGGGTC
TACACCGACCAGCCGCACGCCGACCGGCGCCGGGAGATCCTGGCAAAGTATCCAGAGATAAAGTCCTTGATGAAA
CCTGATCCCAATTTGATATGGATTATAATTATGATGGTTCTCACCCAGTTGGGTGCATTTTACATAGTAAAGAC
TTGGACTGGAAATGGGTCATATTTGGGGCCTATGCGTTTGGCAGTTGCATTAACCACTCAATGACTCTGGCTATT
CATGAGATTGCCACAATGCTGCCTTTGGCAACTGCAAAGCAATGTGGAATCGCTGGTTTGGAAATGTTTGCTAAT
CTTCCTATTGGGATTCCATATTCAATTTCTTTAAGAGGTATCACATGGATCATCATCGGTACCTTGGAGCTGAT
GGCGTCGATGTAGATATTCTACCGATTTTGAGGGCTGGTTCTTCTGTACCGCTTTCAGAAAGTTTATATGGGT
ATTCTTCAGCCTCTCTTTTATGCCTTTGACCTCTGTTTCATCAACCCCAAACCAATTACGTATCTGGAAGTTATC
AATACCGTGGCACAGGTCACTTTTGACATTTTAATTTATTACTTTTTGGGAATTAATCCTTAGTCTACATGTTG
GCAGCATCTTTACTTGGCCTGGGTTTGACCCAATTTCTGGACATTTTATAGCTGAGCATTACATGTTCTTAAAG
GGTCATGAAACTTACTCATATTATGGGCCTCTGAATTTACTTACCTTCAATGTGGGTTATCATAATGAACATCAT
GATTTCCCCAACATTCTGGAATAAGTCTTCCACTGGTGAGGAAAATAGCAGCTGAATACTATGACAACCTCCCT
CACTACAATTCTGGATAAAAGTACTGTATGATTTTGTGATGGATGATACAATAAGTCCCTACTCAAGAATGAAG
AGGCACCAAAAAGGAGAGATGGTGCTGGAGTAAATATCATTAGTGCCAAAGGGATTCTTCTCCAAAACCTTTAGAT
GATAAATGGAATTTTTGCAATTATTAACTTGAGACCAGTGATGCTCAGAAGCTCCCTGGCACAATTTAGAGT
AAGAGCTCGGTGATACCAAGAAGTGAATCTGGCTTTTAAACAGTCAGCCTGACTCTGTACTGCTCAGTTTCACTC
ACAGGAAACTTGTGACTTGTGATTATCGTCATTGAGGATGTTTCACTCATGTCTGTCAATTTTATAAGCATATCA
TTTAAAAAGCTTCTAAAAAGCTATTTGCCAGGCACGGTGGCTCATGCCTATAATCCCAGCACTTTGGGAGGCCA
AGGTGGGTGGATCACCTGAGGTGAGGAGTTGAGAGACCAGCTGGCCAACACGGTGAAACCCCATCTCTACTAAAA
ATGCAAAAATTAGCCGGGCGTGGCGGCACATGCCTGTAATCCCAGCTACATGGGAGGCTGAGGTGGGAGAATTGC
TTGAACCCAGGAGGCGGAGGCAGAGGCTGCAGTGACCCAAGATTGTGCCACTGCACTCCACCCTGGGCAACAGAG
CAAGACCCCATCTCAAAAATAAATAAATATATATAAAAAATAAAAAGCTATTTCTAGTTTATTTCACTATAAAGT
TTTGCTTTATTAAAAAGCTAATAAACAGCTATTAATCACAGTGTATTAGTATTTGTTACATTTTTGTATTTCACT
ATCTTTATACTATATAATATGGTAACCTGGGTACCGGGGGAACTTTAAATTTTCATCTCAAAAATAATTTTAAA
AAGCCTGAGGTATGATATAGCATAAAGATTGAGATGAAAATATATTTCCCTGTAAGCTGAATTACTCATTTAAA
AATTTTAACTTCTATATGGGACCCGAATTAGACACTGCTGAATCCTGTACAGCCTTACTCATAAATAAAGTACTT
ACTGAATTTCCACCATTCAAAAAAAAAAAAAA

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FIGURE 1208

MGSRVSREDFEWVYTDQPHADRRREILAKYPEIKSLMKPDPNLIWIIIMMVLTLGAFYIVKDLWDKWWIFGAYA
FGSCINHSMTLAIHEIAHNAAF GNCKAMWNRWFGMFANLP IGIPIYSISFKRYHMDHHRYL GADGVDVDIPTDFEG
WFFCTAFRKFIWVILQPLFYAFRPLFINPKPITYLEVINTVAQVTFDILIIYYFLGIKSLVYMLAASLLGLGLHPI
SGHFIAEHYMF LKGHETYSYYGPLNLLTFNVGYHNEHDFPNIPGKSLPLVRKIAAEYYDNLPHYNSWIKVLYDF
VMDDTISPYSRMKRHQKGEMVLE

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FIGURE 1209

CTCCTCTAGGCCGCCGGCCGCGAAGCGCTGAGTCACGGTGAGGCGACTGGACCCACACTCTCTTAACCTGCCCTC
CCTGCACTCGCTCCCGGCGGCTCTTCGCGTCACCCCGCCGCTAAGGCTCCAGGTGCCGCTACCGCAGCGTGAGT
ACCTGGGGCTCCTGCAGGGGTCCACTAGCCCTCCATCCTCTACAGCTCAGCATCAGAACACTCTCTTTTAGACT
CCGATATGGGGGTCTCTCCAAGAAAGTTACTCTCTCAGTGCTCAGCCGGGAGCAGTCGGAAGGGGTTGGAGCGAGGG
TCCGGAGAAGCATTGGCAGACCCGAGTTAAAAAATCTGGATCCGTTTTTACTGTTTGATGAATTTAAAGGAGGTA
GACCAGGAGGATTTCTGATCATCCACATCGAGGTTTTTGAAACAGTATCCTACCTCCTGGAAGGGGGCAGCATGG
CCCATGAAGACTTCTGTGGACACACTGGTAAATGAACCCAGGAGATTTGCAGTGGATGACTGCGGGCCGGGGCA
TTCTGCACGCTGAGATGCCTTGCTCAGAGGAGCCAGCCCATGGCCTACAACCTGTGGGTTAATTTGAGGAGCTCAG
AGAAGATGGTGGAGCCTCAGTACCAGGAAGTGAAGAAATCCCTAAACCCAGTAAGGATGGTGTGACAG
TTGCTGTCAATTTCTGGAGAAGCCCTGGGAATAAAGTCCAAGGTTTACACTCGCACACCAACCTTATATTTGGACT
TCAAATTGGACCCAGGAGCCAAACATTCCCAACCTATCCCTAAAGGGTGGACAAGCTTCATTTACACGATATCTG
GAGATGTGTATATTGGGCCCAGTATGCACAACAAAAATAGAACCTCATCACACAGCAGTGCTTGGAGAAGGTG
ACAGTGTCCAGGTGGAGAACAAGGATCCCAAGAGAAGCCACTTTGTCTTAATTGCTGGGGAGCCATTAAGAGAAC
CAGTTATCCAACATGGTCCATTTGTGATGAACACCAATGAAGAGATTTCTCAAGCTATTCTTGATTTCAGAAACG
CAAAAAATGGGTTTGAAAGGGCCAAAACCTGGAAATCAAAGATTGGGAACTAGTGGAAAGCGGAAGAGCAGGTCT
TGATGTGTCCTAGAATTTTGCCATTTCTGAGATTGAGCCATTGAAGGCATTCCATTTCTAAAGCTTATTTAGCCG
GTGCTTCTAAAGAATTCCACACTAACGTGATTAACATGGTTTTTTGTAACAATAAATGTAGGATATTTCTTGGCACA
TGCAAATAAACCTAATCATTGTTTCTTTAAAAAAAAAAAAAAAAA

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FIGURE 1210

MGSSKKVTL SVLSREQSEGVGARVRRSIGRPELKNLDPFLLFDEFKGGRPGGFPDHPHRGFETVSYLLEGGSM AH
EDFCGHTGKMNP GDLQWMTAGRGILHAEMPCSEEP AHGLQLWVNLR SSEKMVEPQYQELKSEEIPKPSKDGVTV A
VISGEALGIKSKVYTRTPTLYLDFKLDPGAKHSQPIPKGWT SFYITISGDVYIGPDDAQQKIEPHHTAVLGE GDS
VQVENKDPKRSHFVLIAGEPLREPVIQHGP FVMNTNEEISQA ILDFRNAKNGFERAKTWKSKIGN

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FIGURE 1211

AATTCCGGAATTCCCCGGCCTGGCCAGGGCGGAGCGGCGCCCAGTAGGGACCCATTTCATTGTGCCGGCGCCTCAC
TGGGCACGGGGGCCAAGCTGACGGCGTGCACGGGAGCCTGCGGAGCCTGGGTGGGAAGAACAGGCCCCCTGGAGGG
CACTTGACCTTAAGCCTCTTTTCCTCCGCAGAGAGGAAGCGGGAGAGGAGCCACGTCGCCTGTCACCCAATATC
TCCAGCCGCGCAGTCCCGAAGAGTGTAAGATGTTTCGCCTGCGCCAAGCTCGCCTGCACCCCCCTCTCTGATCCGAG
CTGGATCCAGAGTTGCATACAGACCAATTTCTGCATCAGTGTTATCTCGACCAGAGGCTAGTAGGACTGGAGAGG
GCTCTACGGTATTTAATGGGGCCCAGAATGGTGTGTCTCAGCTAATCCAAAGGGAGTTTCAGACCAGTGCAATCA
GCAGAGACATTGATACTGCTGCCAAATTTATTGGTGCAGGTGCTGCAACAGTAGGAGTGGCTGGTTCTGGTGCTG
GTATTGGAACAGTCTTTGGCAGCCTTATCATTGGTTATGCCAGAAACCCTTCGCTGAAGCAGCAGCTGTTCTCAT
ATGCTATCCTGGGATTTGCCTTGTCTGAAGCTATGGGTCTCTTTTGTTGATGGTTGCTTTCTTGATTTTGTTG
CCATGTAACAAATTACTGCTTGACATGTTGGCATTTCATATTAATTACGGATGTAATTCTGTGTATCTTACTGTGA
CTCCGAAAACGTAGTATTGGTGTGTCATGGGAATGTACGTTATTTCCAAAGTCATTTCAATTAAGATGAAAACTTT

A

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FIGURE 1212

MFACAKLACTPSLIRAGSRVAYRPI SASVLSRPEASRTGEGSTVFNGAQNQVSQLIQREFQTS AISRDIDTAAKF
IGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM

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FIGURE 1213

ATGGTCAGAAAGCCTGTTGTGTCCACCATCTCCAAAGGAGGTTACCTGCAGGGAAATGTTAACGGGAGGCTGCCT
TCCCTGGGCAACAAGGAGCCACCTGGGCAGGAGAAAGTGCAGCTGAAGAGGAAAGTCACTTTACTGAGGGGAGTC
TCCATTATCATTGGCACCATCATTGGAGCAGGAATCTTCATCTCTCCTAAGGGCGTGCTCCAGAACACGGGCAGC
GTGGGCATGTCTCTGACCATCTGGACGGTGTGTGGGGTCTGTCACTATTTGGAGCTTTGTCTTATGCTGAATTG
GGAACAACATAAAAGAAATCTGGAGGTCATTACACATATATTTTGGAAAGTCTTTGGTCCATTACCAGCTTTTGTA
CGAGTCTGGGTGGAACCTCTCATAATACGCCCTGCAGCTACTGCTGTGATATCCCTGGCATTGAGACGCTACATT
CTGGAACCATTTTTTATTCAATGTGAAATCCCTGAACTTGCAGTCAAGCTCATTACAGCTGTGGGCATAACTGTA
GTGATGGTCTTAAATAGCATGAGTGTGAGCTGGAGCGCCCGGATCCAGATTTTCTTAACCTTTTGCAAGCTCACA
GCAATTCTGATAATTATAGTCCCTGGAGTTATGCAGCTAATTAAAGGTCAAACGCAGAACTTTAAAGACGCGTTT
TCAGGAAGAGATTCAAGTATTACGCGGTTGCCACTGGCTTTTTATTATGGAATGTATGCATATGCTGGCTGGTTT
TACCTCAACTTTGTTACTGAAGAAGTAGAAAACCTGAAAAACCATTCCCTTGCAATATGTATATCCATGGCC
ATTGTCACCATTGGCTATGTGCTGACAAATGTGGCCTACTTTACGACCATTAAATGCTGAGGAGCTGCTGCTTTCA
AATGCAGTGGCAGTGACCTTTTCTGAGCGGCTACTGGGAAATTTCTCATTAGCAGTTCCGATCTTTGTTGCCCTC
TCCTGCTTTGGCTCCATGAACGGTGGTGTGTTTGTCTGTCTCCAGGTTATTCTATGTTGCGTCTCGAGAGGGTCAC
CTTCCAGAAATCCTCTCCATGATTATGTCCGCAAGCACACTCCTCTACCAGCTGTTATTGTTTTGCACCCTTTG
ACAATGATAATGCTCTTCTCTGGAGACCTCGACAGTCTTTTGAATTTCTCAGTTTTGCCAGGTGGCTTTTTATT
GGGCTGGCAGTTGCTGGGCTGATTTATCTTCGATACAAATGCCAGATATGCATCGTCTTTCAAGGTGCCACTG
TTCATCCCAGCTTTGTTTTCTTCACATGCCTCTTCATGGTTGCCCTTTCCCTCTATTTCGGACCCATTTAGTACA
GGGATTGGCTTCGTATCACTCTGACTGGAGTCCCTGCGTATTATCTCTTTATTATATGGGACAAGAAAACCCAGG
TGGTTTAGAATAATGTCAGAGAAAATAACCAGAACATTACAAATAATACTGGAAGTTGTACCAGAAGAAGATAAG
TTAT**TGAA**CTAATGGACTTGAGATCTTGGAATCTGCCAAGGGGAGACACAAAATAGGGATTTTTACTTCATTTT
CTGAAAGTCTAGAGAATTACAACCTTTGGTGATAAAACAAAAGGAGTCAGTTATTTTTATTTCATATATTTTAGCATA
TTCGAACTAATTTCTAAGAAATTTAGTTATAACTCTATGTAGTTATAGAAAGTGAATATGCAGTTATTCTATGAG
TCGCACAATTTCTTGAGTCTCTGATACCTACCTATTGGGGTTAGGAGAAAAGACTAGACAATTACTATGTGGTCAT
TCTCTACAACATATGTTAGCACGGCAAAGAACCTTCAAATTTGAAGACTGAGATTTTTCTGTATATATGGGTTTTG
TAAAGATGGTTTTTACACACTACAGATGTCTATACTGTGAAAAGTGTTTTCAATTCGAAAAAAGCATAACATCAT
GATTATGGCAAAGAGGAGAGAAAGAAATTTATTTTACATTGACATTGCATTGCTTCCCCTTAGATACCAATTTAG
ATAACAAACACTCATGCTTTAATGGATTATACCCAGAGCACTTTGAACAAAGGTCAGTGGGGATTGTTGAATACA
TTAAAGAAGAGTTTCTAGGGGCTACTGTTTATGAGACACATCCAGGAGTTATGTTTAAGTAAAAATCCTTGAGAA
TTTATTATGTCAGATGTTTTTTCATTCAATTATCAGGAAGTTTTAGTTATCTGTCAATTTTTTTTTTTCACATCAGT
TTGATCAGGAAAGTGTATAACACATCTTAGAGCAAGAGTTAGTTTGGTATTAAATCCTCATTAGAACAACCACCT
GTTTCACTAATAACTTACCCCTGATGAGTCTATCTAAACATATGCATTTTAAGCCTTCAAATTACATTATCAACA
TGAGAGAAATAACCAACAAAGAAGATGTTCAAATAATAGTCCCATATCTGTAATCATATCTACATGCAATGTTA
GTAATCTGAAGTTTTTTAAATTTATGGCTATTTTACACGATGATGAATTTTGACAGTTTGTGCATTTTCTTTA
TACATTTTATATTCTTCTGTAAATATCTCTTCAGATGAACTGTCCAGATTAATTAGGAAAAGGCATATATTA
ACATAAAAAATTGCAAAAGAAATGTCGCTGTAAATAAGATTTACAACTGATGTTTCTAGAAAATTTCCACTTCTAT
ATCTAGGCTTTGTCTAGTAATTTCCACACCTTAATTATCATTTCAACTTGCAAAAGAGACAACCTGATAAGAAGAAAA
TTGAAATGAGAACTGTGTGGATAAGTGTTTGTGTTTCCAGAGATGTTGTTTGGCAGTATTAGAAAATACTGTGAGC
CGGGCATGGTGGCTTACATCTGTAATCCCAGCACTTTGGGAGGCTGAGGGGGTGGATCACCTGAGGTGCGGGAGTT
CTAGACCAGCCTGACCAACATGGAGAAACCCCATCTCTACTAAAAATACAAAATTAGCTGGGCATGGTGGCACAT
GCTGGTAATCTCAGCTATTGAGGAGGCTGAGGCAGGAGAAATGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGC
CAAGATTGCACCCTGTACTCCAGCCTGGGTGACAAAGTCAGACTCCATCTCCAAAAAAAAAAAAAAAAA

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FIGURE 1214

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLRGVSIIIGTIIGAGIFISPKGVLQNTGS
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATAVISLAFGRYI
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWSARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF
SGRDSSITRLPLAFYYGMYAYAGWFYLNFTVEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGLHPEILSMIHVRKHTPLPAVIVLHPL
TMIMLFSGDLDSLNLNFLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFST
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSEKITRTLQIILEVVPEEDKL

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FIGURE 1215

ACTTTCCTGCCCCCTTCCCCGGCCAAGCCCCAACTCCGGATCTCGCTCTCCACCGGATCTCACCCGCCACACCCGGA
CAGGCGGCTGGAGGAGGCGGGCGTCTAAAATTCTGGGAAGCAGAACCTGGCCGGAGCCACTAGACAGAGCCGGGC
CTAGCCCAGAGACATGGAGAGTTGCTACAACCCAGGTCTGGATGGTATTATTGAATATGATGATTTCAAATTGAA
CTCCTCCATTGTGGAACCCAAGGAGCCAGCCCCAGAAACAGCTGATGGCCCCCTACCTGGTGATCGTGGAACAGCC
TAAGCAGAGAGGCTTCCGATTTTCGATATGGCTGTGAAGGCCCTCCCATGGAGGACTGCCCCGGTGCCCTCCAGTGA
GAAGGGCCGAAAAGACCTATCCCACTGTCAAGATCTGTAACTACGAGGGACCAGCCAAGATCGAGGTGGACCTGGT
AACACACAGTGACCCACCTCGTGCTCATGCCCACAGTCTGGTGGGCAAGCAATGCTCGGAGCTGGGGATCTGCGC
CGTTTCTGTGGGGCCCAAGGACATGACTGCCCAATTTAAACAACCTGGGTGTCTGTCATGTGACTAAGAAGAACAT
GATGGGGACTATGATACAAAACCTTCAGAGGCAGCGGCTCCGCTCTAGGCCCCAGGGCCTTACGGAGGCCGAGCA
GCGGGAGCTGGAGCAAGAGGCCAAAGAAGGTGAAGAAGGTGATGGATCTGAGTATAGTGC GGCTGCGCTTCTCTGC
CTTCCCTTAGAGCCAGTGATGGCTCCTTCTCCCTGCCCCCTGAAGCCAGTCACCTCCCAGCCCATCCATGATAGCAA
ATCTCCGGGGGCATCAAACCTGAAGATTTCTCGAATGGACAAGACAGCAGGCTCTGTGCGGGGTGGAGATGAAGT
TTATCTGCTTTGTGACAAGGTGCAGAAAGATGACATTGAGGTTCTGTTCTATGAGGATGATGAGAATGGATGGCA
GGCCTTTGGGGACTTCTCTCCACAGATGTGCATAAACAGTATGCCATTGTGTTCCGGACACCCCCCTATCACAA
GATGAAGATTGAGCGGCCTGTAACAGTGTCTTCTGCAACTGAAACGCAAGCGAGGAGGGGACGTGTCTGATTCCAA
ACAGTTCACCTATTACCCTCTGGTGGAAGACAAGGAAGAGGTGCAGCGGAAGCGGAGGAAGGCCTTGCCCACCTT
CTCCCAGCCCTTCGGGGGTGGCTCCACATGGGTGGAGGCTCTGGGGGTGCAGCCGGGGGCTACGGAGGAGCTGG
AGGAGGTGGCAGCCTCGGTTTCTTCCCCTCCTCCCTGGCCTACAGCCCCCTACCAGTCCGGCGCGGGCCCCATGCG
GTGCTACCCGGGAGGCGGGGGCGGGGCGCAGATGGCCGCCACGGTGGCCAGCAGGGACTCCGGGGAGGAAGCCGC
GGAGCCGAGCGCCCCCTCCAGGACCCCCCAGTGCGAGCCGCAGGCCCCGGAGATGCTGCAGCGAGCTCGAGAGTA
CAACGCGCGCCTGTTCCGGCCTGGCGCACGCAGCCCCGAGCCCTACTCGACTACTGCGTCACCGCGGACGCCGCGC
GCTGCTGGCGGGACAGCGCCACCTGCTGACGGCGCAGGACGAGAACGGAGACACACCCTGCACCTAGCCATCAT
CCACGGGCAGACCAGTGTCATTGAGCAGATAGTCTATGTTCATCCACCACGCCAGGACCTCGGCGTTGTCAACCT
CACCAACCACCTGCACCAGACGCCCTGCACCTGGCGGTGATCACGGGGCAGACGAGTGTGGTGAGCTTTCTGCT
GCGGGTAGGTGCAGACCCAGCTCTGCTGGATCGGCATGGAGACTCAGCCATGCATCTGGCGCTGCGGGCAGGCGC
TGGTGCTCCTGAGCTGCTGCGTGCACTGCTTCAGAGTGAGCTCCTGCTGTGCCCCAGCTGTTGCATATGCCTGA
CTTTGAGGGACTGTATCCAGTACACCTGGCGGTCCGAGCCCCGAAGCCCTGAGTGCTTGATCTGCTGGTGACAG
TGGGGCTGAAGTGAGGCCACAGAGCGGCAGGGGGGACGAACAGCCTTGATCTAGCCACAGAGATGGAGGAGCT
GGGGTTGGTCACCCATCTGGTCACCAAGCTCCGGGCCAACGTGAACGCTCGCACCTTTGCGGGAAACACACCCCT
GCACCTGGCAGCTGGACTGGGGTACCCGACCCTCACCCGCTCCTTCTGAAGGCTGGTGCTGACATCCATGCTGA
AAACGAGGAGCCCCCTGTGCCCACTGCCTTACCCCCCTACCTCTGATAGCGACTCGGACTCTGAAGGGCCTGAGAA
GGACACCCGAAGCAGCTTCCGGGGCCACACGCCTCTTGACCTCACTTGCAGCACCTTGGTGAAGACCTTGCTGCT
AAATGCTGCTCAGAACACCATGGAGCCACCCCTGACCCCGCCAGCCAGCAGGGCCGGGACTGTCACTTGGTGA
TACAGCTCTGCAGAACCTGGAGCAGCTGCTAGACGGGCCAGAAGCCCAGGGCAGCTGGGCAGAGCTGGCAGAGCG
TCTGGGGCTGCGCAGCCTGGTAGACACGTACCGACAGACAACCTCACCCAGTGGCAGCCTCCTGCGCAGCTACGA
GCTGGCTGGCGGGGACCTGGCAGGTCTACTGGAGGCCCTGTCTGACATGGGCCTAGAGGAGGGAGTGAGGCTGCT
GAGGGGTCCAGAAACCCGAGACAAGCTGCCCAGCACAGAGGTGAAGGAAGACAGTGCGTACGGGAGCCAGTCAGT
GGAGCAGGAGGCAGAGAAGCTGGGCCCACCCCTGAGCCACCAGGAGGGCTCTCGCACGGGCACCCCCAGCCTCA
GGTGA CTGACCTGCTGCTGCCCCAGCCCCCTTCCCGGACCCCCCTGTACAGCGTCCCCACCTATTTCAAATCTT
ATTTAACACCCCCACACCCACCCCTCAGTTGGGACAAATAAAGGATTCTCATGGGAAGGGGAGGACCCCGAATTCC
T

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FIGURE 1216

MESCYNPGLDGIIEYDDFKLNSSIVEPKEPAPETADGPYLVIVEQPKQRGFRFRYGCCEGPSHGGLPGASSEKGRK
TYPTVKICNYEGPAKIEVDLVTHSDPPRAHAHSLVGKQCSELGICAVSVGPKDMTAQFNNLGVLVHTKKNMMGMTM
IQKLQRQRLRSRPQGLTEAEQRELEQEAKELKKVMDLSIVRLRFS AFLRASDGSFSLPLKPVTSQPIHDSKSPGA
SNLKISRMDKTAGSVRGDEVYLLCDKVQKDDIEVRFYEDDENGWQAFGDFSPTDVHKQYAIVFRTPPYHKMKIE
RPVTVFLQLKRKRGGDVSDSKQFTYYPLVEDKEEVQRKRRKALPTFSQPFGGGSHMGGGSGGAAGGYGGAGGGGS
LGFFPSSLAYSPYQSGAGPMRCYPGGGGGAQMAATVPSRDSGEEAAEPSAPSRTPOCEPQAPPEMLQRAREYNARL
FGLAHAAPSPTRLLRHRGRALLAGQRHLLTAQDENGDTPLHLAI IHGQTSVIEQIVYVIHHAQDLGVVNLTNHL
HQTPHLAVITGQTSVVSFLLRVGADPALLDRHGDSAMHLALRAGAGAPELLRALLQSGAPAVPQLLHMPDFEGL
YPVHLAVRARSPECDLLVDSGAEVEATERQGGRTALHLATEMEELGLVTHLVTKLRANVNARTFAGNTPLHLAA
GLGYPTLTRLLKAGADIHAENEELCPPLSPPTSDSDSDSEGPEKDTRSSFRGHTPLDLTCSTLVKTLNLLNAAQ
NTMEPPLTPPSPAGPGLSLGDTALQNLQQLLDGPEAQGSWAELAERLGLRSLVDTYRQTTSPSGSLLRSYELAGG
DLAGLLEALSDMGLEEGVRLLRGPETRDKLPSTEVKEDSAYGSQSVEQEAELGPPPEPPGGLSHGHPQPQVTDL
LPAPSPPLPGPPVQRPHLFQILFNTPHPPPLSWDK

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FIGURE 1217

GACCACGCGTATCGATGTGACCCACAGGATTGTACAGAGGGCAGGGTGGTGA CTGAGGACCAGCTCCTCATGC
TTGAGGCTGTGGTGATGCACCTCGGGATCCGCTCTGCCCCGCTGTGTCTGGGC**ATG**GAGGGTCAGCAGGTCATCC
TGCACCTGCCCCATCCAGAAAGGGGCCCTTCTGGACATGGGAGCCTAGTGCCCCCTCGAACTCTGCTCCAGGTCC
TACAGGATCCAGCCCTGAAAGACCTCGTCCTCACCTGCCCCACCCCTGCCCTGGCATTCCCTGATCCTGCGGCCCC
AGTATGAGATCCAAGCCATCATGCACATGCGCAGGACCATTGTCAAGATCCCTTCTACCCTGGAGGTCGACGTGG
AGGACGTACCCGCTCCTCCCGGCACGTCCACTTTATCAAACCGCTGCTGCTGAGCGAGGTCCTGGCCTGGGAAG
GCCCTTTCCCCCTGTCCATGGAGATCCTGGAGGTTCTGAGGGCCGCCCATCTTCCTCAGCCCCGTGGGTGGGCT
CCTTGCAAAAAGGCCAGAGGCTTTGCGTCTATGGCCTAGCCTCACCACCCTGGCGGGTCTTGGCCTCAAGCAAGG
GCCGCAAGGTGCCCAGGCACTTCTGGTGTGAGGGGGCTACCAAGGCAAGCTGCGGCGGCGGCCAAGGGAGTTCC
CCACGGCCTATGACCTCCTAGGTGCTTTCCAGCCAGGCCGGCCACTCCGGGTGGTGGCCACAAAGGACTGTGAGG
GCGAGAGGGAGGAGAATCCCGAGTTCACGTCCCTGGCTGTGGGTGACCGGCTGGAGGTGCTGGGGCCTGGCCAGG
CCCATGGGGCCCAGGGCAGTGACGTGGATGTCTTGGTTTGTGACGGCTGAGTGACCAGGCTGGGGAAGATGAGG
AGGAAGAGTGCAAAGAGGAGGCAGAGACCCAGAGCGGGTCTGCTGCCCTTCCACTTCCCTGGCAGTTTCGTGGA
GGAGAT**TGA**GTGACAGCCGGCGCTACAGCCTGGCAGATCTGACTGCCAGTTTTCAATGCCTTGTGAGGTCAAGGT
GGTGGCCAAGGACACCAGCCACCCCAATGACCCTCAGAACCTCCTTCCTGGGCCTGCGGCTGGAGGAGAAGATCA
CAGAGCCATTCTTGGTGGTGAGCCTGGACTCTGAGCTGGGATGTGCTTTGAGATCCCTCCCCGGAGGCTGGACCT
GACTGTCTGTGGAGGCCAAGGGGCAGCCAGACTTGCCAGAGGGGTCTCTCCCATAGCCACAGTGAGGAAGCTGG
AACAGACACCTTTTATTATTGTCTTCGGAAGTTACCAGCCTGTGAGATCCAAGCCCCCCCACCCAGGCCCCCTAA
AAATCAGGGCCTCAGCAAGCAGAGGAGACACAGCAGTGAGGGAGGCGTCAAGTCTTCTCAAGTCTTAGGATTGCA
GCAACACGTTCTGGCTGCCCAAACCCAAAGGCGAAGACCTTGCCAGAGTTCATCAAGGATGGCTCCAGTACGTACAG
CAAGATTCTTGCCACAGGAAGGGCCACAGGCCCCGCTAAGCCCCAAAGGCAGGATCTAGATGATGATGAACATGA
TTATGAAGAAATACTTGAGCAATTTAGAAAACCATCTAAGTGCTGGAGGAACCACGCTTCCTAACTGCTGCTTC
TCAGGGAATCCGACACCAGCCAACCATTTTAAGCCTCTAAAAGACCTCGGGCAAGTCTCACAGAACTGAGCTGC
AGACGGGGAGTAGCTTTGTGGAAACTGATTTGATGGACACTGCACCAGCTTCCTTCAGGTTCTAGATTCTTGCTA
CTTAGGGCGGGCTGGTTTGGACCTAACATCTCGCACGTGACTCCCTCAGCCTCAGAGCCTTGGGATGCAGAGCAG
CTGGCAGGGTTCTCTCAATCCTGCAACCCCAAGCTGTCCCAACGGTGGATGCAGAGGGGAATCCGAGGCCATCAA
CCTTGGTGACAGCAGCGCAGTGCCAATGCTGATCACACTGCATGGGAGATTTTGTAAACGTCTGCCACCCCCACT
CTCACCCCCAAGCTCTAAGCCCCGGGAGGCCTGGACTGTCTTCCTCATCTCTGTAGCACCAAGCCTGATAGATC
TGTATATGGTAAACAGGGGTTTAACCACATGTGGTTAACATGGATTAATGTGGGAATTTGGCTTCAAGAACACAA
CCTTAGGACCTTGGGCCCCAAAGCTGGTGGTGAAATGAGAGGAGCCAATTTAAGAAGACCCTTATGGAGACCTG
AGGCTGCAGAACTGGTAGGTTTCATCAGGTGGTTAAAGTCGTCAAAGTTGTAAGTGACTAACCAAGATTATTTCC
ATTTTAAAACACAGAATAAAAATGACACCTGAGCTTCTCC

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FIGURE 1218

MEGQQVILHLPLSQKGFWTWEP SAPRTLQVLQDPALKDLVLTCTLPWHS LILRPQYEIQAIMHMRRTIVKIP
STLEVDVEDVTASSRHVHF I KPLLLSEVLAWEGPFPLSMEILEVPEGRPIFLSPWVGS LQKGQRLCVYGLASPPW
RVLASSKGRKVPRHFLVSGGYQGKLRRRPREFPTAYDLLGAFQGRPLRVVATKDCEGEREENPEFTSLAVGDRL
EVLGPGQAHGAQGS DVDVLVCQRLSDQAGED EEEEECKEEAETQSGSCCPSTSLAVSWRR

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FIGURE 1219

CTAGCTCTGTGGGAAGGTTTTGGGCTCTCTGGCTCGGATTTTGCAATTTCTCCCTGGGGACTGCCGTGGAGCCGC
ATCCACTGTGGATTATAATTGCAACATGACGCTGGAAGAGCTCGTGGCGTGCGACAACGCGGCGCAGAAGATGCA
GACGGTGACCGCCGCGGTGGAGGAGCTTTTGGTGGCCGCTCAGCGCCAGGATCGCCTCACAGTGGGGGTGTACGA
GTCGGCCAAGTTGATGAATGTGGACCCAGACAGCGTGGTCCTCTGCCTCTTGGCCATTGACGAGGAGGAGGAGGA
TGACATCGCCCTGCAAATCCACTTCACGCTCATCCAGTCCTTCTGCTGTGACAACGACATCAACATCGTGCGGGT
GTCGGGCAATGCGCGCCTGGCGCAGCTCCTGGGAGAGCCGCGCCGAGACCCAGGGCACCCAGGAGGCCCGAGACCT
CCACTGTCTTCCCTTCCTACAGAACCCTCACACGGACGCCTGGAAGAGCCACGGCTTGGTGGAGGTGGCCAGCTA
CTGCGAAGAAAGCCGGGGCAACAACCAGTGGGTCCCCCTACATCTCTCTTCAGGAACGCTTGAGGGCCCTTCCCAGCA
GCAGAATCTGTTGAGTTGCTGCCAACAAACAAAAAATACAATAAATATTTGAACCCCTCCCCCCCAGCACAAAC
CCCCAAAACAACCAACCCACGAGGACCATCGGGGGCAGGTCGTTGGAGACTGAAGAGAAAGAGAGAGAGGAGA
AGGGAGTGAGGGGCCGCTGCCGCCTTCCCCATCACGGAGGGTCCAGACTGTCCACTCGGGGGTGGAGTGAGACTG
ACTGCAAGCCCCACCCTCCTTGAGACTGGAGCTGAGCGTCTGCATACGAGAGACTTGGTGAACTTGGTTGGTC
CTTGTCTGCACCTCGACAAGACCACACTTTGGGACTTGGGAGCTGGGGCTGAAGTTGCTCTGTACCCATGAACT
CCCAGTTTGCGAATTAATAAGAGACAATCTATTTTGTTACTTGCACTTGTTATTCTGAACCACTGAGAGCGAGATG
GGAAGCATAGATATCTATATTTTTATTCTACTATGAGGGCCTTGTAATAAATTTCTAAAGCCTCAAAAAA

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FIGURE 1220

MTLEELVACDNAAQKMQTVTAAVEELLVAAQRQDRLTVGVYESAKLMNVDPDSVVLCLLAIDEEEEEEDDIALQIHF
TLIQSFCCDNDINIVRVSGNARLAQLLGEP AETQGTTEARDLHCLPFLQNPHTDAWKSHGLVEVASYCEESRGNN
QWVPYISLQER

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FIGURE 1221

AGCATTTTCAGGCCCCGGACAGGAGGCAGTGCCGCTTCGGCCGAAGGCCGAGCCGCCCCGAGGGCTCTGGGATGGTG
TGGGACCGGCAAACCAAG**ATGG**AGTATGAGTGGAAACCTGACGAGCAAGGGCTTCAGCAAATCCTGCAGCTGTTG
AAGGAGTCCCAGTCCCAGACACCACCATCCAGAGAACCGTGCAACAAAACTGGAACAACCTTAATCAGTATCCA
GACTTTAACAACTACTTGATTTTTGTTCTTACAAAAATTTAAATCTGAAGATGAACCCACAAGATCATTGAGTGGT
CTTATCTTGAAGAATAATGTGAAAGCACACTTTTCAGAACTTCCCAAATGGTGTAACAGACTTTATTAAAAAGTGAA
TGTTTAAATAATATTGGTGACTCCTCTCCTCTGATTAGAGCCACTGTTGGTATTTTGTATCACAACTATAGCCTCC
AAGGGAGAATTGCAGAATTGGCCTGACCTCTTACCAAACTCTGTAGCCTGTTGGATTCTGAAGATTATAATACC
TGTGAGGGAGCATTGGTGCCCTTCAGAAGATTTGTGAAGATTCTGCTGAGATTTTAGACAGTGATGTTTTAGAT
CGTCTCTCAACATCATGATTCCCAAATTTTACAGTTCTTCAAGCATAGTAGTCCAAAAATAAGGTCTCACGCT
GTTGCATGTGTCAATCAGTTTATCATCAGTAGGACTCAAGCTCTAATGTTGCACATTGATTCTTTTACTGAGAAT
CTCTTTCATTAGCTGGTGATGAAGAACCAGAGGTACGGAAAAATGTGTGCCGAGCACTTGTGATGTTGCTCGAA
GTTTCGAATGGATCGCCTGCTTCTCACATGCATAATATAGTTGAGTACATGCTACAGAGGACTCAAGATCAAGAT
GAAAATGTGGCTTTAGAAGCCTGTGAATTTTGGCTAACTTTAGCTGAACAGCCAATATGCAAAGATGTACTCGTA
AGGCATCTTCCTAAGTTGATTCTGTGTTAGTGAATGGCATGAAGTACTCAGACATAGATATTATCCTACTTAAG
GGTGATGTTGAAGAAGACGAAACGATTCTGTAGTGAACAGGATATACGGCCACGTTTTACCGATCGAGGACG
GTGGCTCAGCAGCATGATGAAGATGGAATTGAAGAGGAAGACGATGATGATGAAATTGATGATGATGATACAA
ATTTTCAGACTGGAATCTAAGAAAATGTTCTGCTGCTGCCCTGGATGTTCTTGCAAATGTGTATCGTGATGAAGT
CTGCCACATATTTGCCCCTTTTGAAAGAATTACTTTTTTCATCATGAATGGGTTGTTAAAGAATCAGGCATTTTG
GTTTTAGGAGCAATTGCTGAAGGTTGCATGCAGGGCATGATTCCATACTTGCCTGAGCTTATTCTCACCTTATT
CAGTGCCTCTCTGATAAAAAGGCTCTTGTGCGTTCCATAACATGCTGGACTCTTAGCCGCTATGCACACTGGGTG
GTCAGCCAGCCGCCAGACACGTACCTGAAGCCATTAATGACAGAATTGCTAAAGCGCATCCTGGACAGCAACAAG
AGAGTACAAGAAGCTGCCTGCAGTGCCTTTGCTACCTAGAAAGAGGAGGCTTGTACAGAACTTGTTCCTTACCTT
GCTTATATACTTGATACCCTGGTCTTTGCATTTAGTAAATACCAGCATAAGAACCTGCTCATTCTTTACGATGCC
ATAGGAACATTAGCAGATTTCAGTAGGACATCATTTAAACAAACCAGAATATATTTCAGATGCTAATGCCTCCACTG
ATCCAGAAATGGAACATGTTAAAGGATGAAGATAAAGATCTCTTCCCTTTACTTGAGTGCCTATCTTCAGTTGCC
ACAGCACTGCAGTCTGGATTCTTCCGTACTGTGAACCTGTGTATCAGCGTTGTGTAAACCTAGTACAGAAGACT
CTTGCAACAAGCCATGCTAAACAATGCTCAACCAGATCAATATGAAGCTCCAGATAAAGATTTTATGATAGTGGCT
CTTGATTTACTGAGTGGCCTGGCTGAAGGACTTGAGGCAACATTGAACAGCTGGTAGCCGAAGTAACATCCTG
ACACTAATGTATCAGTGCATGCAGGATAAAATGCCAGAAGTTCGACAGAGTTCTTTTGCCCTGTTAGGTGACCTC
ACAAAAGCTTGCTTTTCAGCATGTTAAGCCTTGTATAGCTGATTTTCATGCCAATATTGGGAACCAACCTAAATCCA
GAATTCATTTTCAGTCTGCAACAATGCCACATGGGCAATTGGAGAAATCTCCATTCAAATGGGTATAGAGATGCAG
CCTTATATTCCTATGGTGTGTCACCAGCTTGTAGAAATCATTAAACAGACCCAACACACCAAAGACGTTGTTAGAG
AATACAGCAATAACAATTGGTCGTCTTGTTACGTTTGTCTCAAGAGGTGGCCCCCATGCTACAGCAGTTTATA
AGACCCTGGTGCACCTCTCTGAGAAACATAAGAGACAATGAGGAAAAGGATTTCAGCATTCCGTGGAATTTGTACC
ATGATCAGTGTGAATCCAGTGGCGTAATCCAAGATTTTATATTTTTTTGTGATGCCGTTGCATCATGGATTAAC
CCAAAAGATGATCTCAGAGACATGTTCTGTAAAGATCCTTCATGGATTTAAAAATCAAGTTGGCGATGAAAATTGG
AGGCGTTTCTCTGACCAGTTTCTCTTCCCTTAAAAGAGCGTCTTGCAGCTTTTTATGGTGT**TAA**TCTAATACA
CTTAAGCTGCAGTCCCAAATTAGGGGTCTTCAGTCTTGGAGACTATAAGGGAGCCTCTGCACCCAGGGGAAAAT
GTTACCTTTACAGGGGGGAAGGGTAAACCAGTAGGGAATACAGTACAATCCCAACCCTACTGGGAGGGGGCGGGA
GGGAGGTGTTGCCGTCACCTGTATTAAAGTCGATGTTGGGAAACGTTTTAACATCTGGAGCCTTTGTGGGTGGAAAT
ATGTCTCCAGTTACAACCTCCGAGTGGATGTGAAGAAGCAAAAAAAAAAAAAA

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FIGURE 1222

MEYEWKPDEQGLQQILQLLKESQSPDTTIQRTVQQKLEQLNQYPDFNNYLIFVLTCLKSEDEPTRSLSGLILKNN
VKAHFQNFPGVTDFFIKSECLNIGDSSPLIRATVGILITTIASKGELQNWPDLLPKLCSLLDSEDYNTCEGAFG
ALQKICEDSAEILDSVDLDRPLNIMIPKFLQFFKHSSPKIRSHAVACVNQFIISRTQALMLHIDSFTENLFALAG
DEEPEVRKNVCRALVMLLEVRMDRLPHMHNIVEYMLQRTQDQDENVALEACEFWLTLAEQPICKDVLVRHLPKL
IPVLVNGMKYSDIDIILLKGDVEEDETIPDSEQDIRPRFHRSTVAQQHDEDEGIEEEDDDDDDEIDDDDTISDWNL
RKCSAAALDVLANVYRDELLPHILPLLKELLFHHEWVVKESGILVLGAIAEGCMQGMIPYLPILPHLIQCLSDK
KALVRSITCWTLSTRYAHWVVSQPPDTYKPLMTTELLKRILDSNKRQEAACSAFATLEEEACTELVPYLAYILDT
LVFAFSKYQHKNLLILYDAIGTLADSVGHHLNKPEYIQMLMPPLIQKWNMLKDEDKDLFPILLECLSSVATALQSG
FLPYCEPVYQRCVNLVQKTLAQAMLNNAQPDQYEAPDKDFMIVALDLLSGLAEGLGGNIEQLVARSNILTMYQC
MQDKMPEVRQSSFALLGDLTKACFQHVKPCIADFMPILGTNLNPEFISVCNNATWAIGEISIQMGIEMQPYIPMV
LHQLVEIINRPNTPKTLLENTAITIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICTMISVNP
SGVIQDFIFFCDAVASWINPKDDL RDMFCKILHGFKNQVGDENWRRFSDQFPLPLKERLAAFYGV

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FIGURE 1223

GCTCACTGCCACACGCAGCTCAGCCTGGGCGGCACAGCCAGATGCGAGATGCGTCTCTGCTGATCTGAGTCTGCC
TGCAGCATGGACCTGGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAGGGCTCATC
CATCCGCAGAGCAGGGCAGTGGGAGGAGACGCCATGACCCCCATCGTCACAGTCCTGATCTGTCTCGGGCTGAGT
CTGGGCCCCAGGACCCACGTGCAGACAGGGACCATCCCCAAGCCCACCCTGTGGGCTGAGCCAGACTCTGTGATC
ACCCAGGGGAGTCCCGTCACCCCTCAGTTGTGAGGGGAGCCTTGAAGCCCAGGAGTACCGTCTATATAGGGAGAAA
AAATCAGCATCTTGGATTACACGGATACGACCAGAGCTTGTGAAGAACGGCCAGTTCCACATCCCATCCATCACC
TGGGAACACACAGGGCGATATGGCTGTGAGTATTACAGCCGCGCTCGGTGGTCTGAGCTCAGTGACCCCTGGTG
CTGGTGATGACAGGAGCCTACCCAAAACCCACCCTCTCAGCCCAGCCCAGCCCTGTGGTGACCTCAGGAGGAAGG
GTGACCCCTCCAGTGTGAGTCACAGGTGGCATTGCGGCTTCATTCTGTGTAAGGAAGGAGAAGATGAACACCCA
CAATGCCTGAACTCCAGCCCCATGCCCCGTGGGTCTCCGCGCCATCTTCTCCGTGGGCCCCGTGAGCCCGAAT
CGCAGGTGGTCGCACAGGTGCTATGTTATGACTTGAACCTCTCCCTATGTGTGGTCTTACCCAGTGATCTCCTG
GAGCTCCTGGTCCCAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCGGGTCTGTGCTGGCCCCCTGGGGA
AGCCTGACCCCTCCAGTGTGTCTCTGATGTGCGCTATGACAGATTTGTTCTGTACAAGGAGGGGGAACGTGACCTT
CGCCAGCTCCCTGGCCGGCAGCCCCAGGCTGGGCTCTCCAGGCCAACTTACCCCTGGGCCCTGTGAGCCGCTCC
TACGGGGGCCAGTACAGATGCTACGGTGCATACAACCTCTCCTCCGAGTGGTTCGGCCCCCAGCGACCCCTGGAC
ATCCTGATCACAGGACAGATCCATGGCACACCCTTCATCTCAGTGCAGCCAGGCCCCACAGTGGCCTCAGGAGAG
AACGTGACCCCTGCTGTGTGTCAGTCATGGCGGCAGTTCCACACTTTCTTCTGACCAAGGCGGGAGCAGCTGATGCC
CCACTCCGTCTAAGATCAATACACGAATATCCTAAGTACCAGGCTGAATTCCCCATGAGTCTGTGACCTCAGCC
CACGCGGGGACCTACAGGTGCTACGGCTCACTCAACTCCGACCCCTACCTGCTGTCTCACCCCAGTGAGCCCTG
GAGCTCGTGGTCTCAGGACCCTCCATGGGTTCAGCCCCCACCACCGGTCCCATCTCCACACCTGCAGGCCCT
GAGGACCAGCCCTCACCCCCACTGGGTGGGATCCCCAAAGTGGTCTGGGAAGGCACCTGGGGGTTGTGATCGGC
ATCTTGGTGGCCGTGCTCCTACTGCTCCTCCTCCTCCTCCTCCTCCTCCTCATCCTCCGACATCGACGTCAGGGC
AAACACTGGACATCGACCCAGAGAAAGGCTGATTTCCAACATCCTGCAGGGGCTGTGGGGCCAGAGCCCACAGAC
AGAGGCCTGCAGTGGAGGTCCAGCCCAGCTGCCGACGCCAGGAAGAAAACCTCTATGCTGCCGTGAAGGACACA
CAGCCTGAAGATGGGGTGGAGATGGACACTCGGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCAG
CTGCACAGCTTGACCCTCAGACGGAAGGCAACTGAGCCTCCTCCATCCAGGAAAGGGAACCTCCAGCTGAGCCC
AGCATCTACGCCACCCTGGCCATCCACTTAGCCCCGAGGGTACGCAGACTCCACACTCAGTAGAAGGAGACTCAGG
ACTGCTGAAGGCACGGGAGCTGCCCCAGTGGACACCAATGAACCCAGTCAGCCTGGACCCCTAACAAAGACCA
TGAGGAGATGCTGGGAACCTTTGGGACTCACTTGATTCTGCAGTCGAAATAACTAATATCCCTACATTTTTTAATT
AAAGCAACAGACTTCTCAATAAAAGCAGGTGCTCTCGTTCCAATCT

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FIGURE 1224

MTPIVTVLICLGLSLGPRTHVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWITRIRP
ELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLVMTGAYPKPTLSAQPSPVVTSGGRVTLQCESQVAF
GGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSPSDLLELLVPGVSKKP
SLSVQPGPVVAPGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQANFTLGFPVSRSYGGQYRCYGAY
NLSSEWSAPSDPLDILITGQIHGTPFISVQPGPTVASGENVTLLCQSWRQFHTFLLTKAGAADAPLRLRSIHEYF
KYQAEFFPMSPVTSAHAGTYRCYGSINSDPYLLSHPSEPLELVVSGPSMGSSPPPTGPISTPAGPEDQPLTPTGSD
PQSGLGRHLGVVIGILVAVVLLLLLLLLLLLLLFLILRHRQKHWSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAA
DAQEENLYAAVKDTQPEDGVEMDTRAAASEAPQDVTYAQLHSLTLRRKATEPPPSQEREPPAEPSTYATLAIH

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FIGURE 1225

GAATTCCCGTGATAGACAGACTGTCCACCATCTGAACCTTCATTCACCACCATTTCGATAACCCTTCTTCCGAGCC
TCTCCTCTGGTCGCGCGGGGAGGAGAGGCGAGATATGGCAGATGAGATTGCCAAGGCTCAGGTCGCTCGGCCTGGTG
GCGACACGATCTTTGGGAAGATCATCCGCAAGGAAATACCAGCCAAAATCATTTTTGAGGATGACCGGTGCCTTG
CTTTCCATGACATTTCCCCTCAAGCACCAACACATTTTCTGGTGATACCCAAGAAACATATATCCCAGATTTCTG
TGGCAGAAGATGATGATGAAAGTCTTCTTGGACACTTAATGATTGTTGGCAAGAAATGTGCTGCTGATCTGGGCC
TGAATAAGGGTTATCGAATGGTGGTGAATGAAGGTTTCAGATGGTGGACAGTCTGTCTATCACGTTTCATCTCCATG
TTCTTGGAGGTCGGCAAATGCATTGGCCTCCTGGTTAAGCACGTTTTGGGGATAATTTTCTTCTTTAGCATGA
TAAGTTAGGCAATTCCAGTATGTTAAGTAACACACTTATTTTTCCTGTGTATGGAGAGATTCAAGAAATAATTT
TAAACCCGCTACATAATAAAAGACATTGTTGCATGGAATTC

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FIGURE 1226

MADEIAKAQVARPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVAEDDDDESLG
HLMIVGKKCAADLGLNKGYRMVVNEGSDGGQSVYHVHLHVLGGRQMHWPPG

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FIGURE 1227

GTTTTTTTCCCTTCTGAGCA**ATG**GAGCTTACCATCTTTATCCTGAGACTGGCCATTTACATCCTGACATTTCCCT
TGTACCTGCTGAACTTTCTGGGCTTGTGGAGCTGGATATGCAAAAAATGGTTCCCCTACTTCTTGGTGAGGTTCA
CTGTGATATACAACGAACAGATGGCAAGCAAGAAGCGGGAGCTCTTCAGTAACCTGCAGGAGTTTGCGGGGCCCT
CCGGGAAACTCTCCCTGCTGGAAGTGGGCTGTGGCACGGGGGCCAAGTTCAAGTTCTACCCACCTGGGTGCAGGG
TGACCTGTATTGACCCCAACCCCAACTTTGAGAAAGTTTTTGATCAAGAGCATTGCAGAGAACCGACACCTGCAGT
TTGAGCGCTTTGTGGTAGCTGCCGGGGAGAACATGCACCAGGTGGCTGATGGCTCTGTGGATGTGGTGGTCTGCA
CCCTGGTGCTGTGCTCTGTGAAGAACCAGGAGCGGATTCTCCGCGAGGTGTGCAGAGTGCTGAGACCGGGAGGGG
CTTTCTATTTTCATGGAGCATGTGGCAGCTGAGTGTTTCGACTTGGAATTACTTCTGGCAACAAGTCTCGGATCCTG
CCTGGCACCTTCTGTTTGATGGGTGCAACCTGACCAGAGAGAGCTGGAAGGCCCTGGAGCGGGCCAGCTTCTCTA
AGCTGAAGCTGCAGCACATCCAGGCCCACTGTCTCTGGGAGTTGGTGCGCCCTCATATCTATGGATATGCTGTGA
AA**TAG**TGTGAGCTGGCAGTTAAGAGCTGAATGGCTCAAAGAATTTAAAGCTTCAGTTTTACATTTAAAATGCTAA
GTGGGAGAAGAGAAACCTTTTTTTTTGGGGGGCGGTTTTTTTTGGTTTGTGTTGGTTTTTTTTTTTTTTTTTGGCAA
GACTCCGTCTCAAAAAAAAAAAAAAAAAAAAAAGTAGAGACAGGGAGACAGGGTCTCACTGTGTTGCCTAG
GCCGGTCTTGAACCTCTGGGCTCAAGTGATTCTCCACCTTGACCTCCTAAATTGTTGGGATTACAGGTGTGAGA
CAGTGCACCTGGCCGAAATAGCTCAAGTTTCTGAAAAACAAATCTGAATCTATTTGTTATTCTTAGCGTCACTGG
TCTGGCTTTCAGAATTAACATACAAGGTTGCCACACCTAGTTCTGCCAGCTTTATGTCTTTTATTCCAGTATTC
CACCAAAGTTTGTTCCTGCATTCCAGTTCTCAAGTCTTAAGATAAAGATTGTACTTGACAGTTTAGTATATCC
ATAAACTATTTGAGGTGGTTAAGGTTCTTGGGTTCAATTTTCCTTAATACTTTGCTGAATATTGTAGATTGTAGG
CAATGAAAAAGTCTACTAAATTAGGAAAACCTTGAATAATTAGGTATCCTAGGTAAGAGCCCCTAAACATCAAGC
AATCTGTGAGTCTGTAAAGAAATAAATATTTTTTGGATTATTCTTATCTAATTCCACCCCTGTTGGAAGATGATT
TCTTTGTTCTTTGCAACTATGGAAGCTGTGAAAATCATCACAAGTGCCTCTGAAAGCGAGTGTTAGGTTGGTTAG
AGGGTTTAATATTTTCTGCAATGGTTTGTAGGAATTTTAATAAATGTAGTATATTTTCTGAGATGATTTTGTAAA
AGTACTATTTTAAATATCAAATCAACCAATAAATTCACATTTGTGTTAGGAACAG

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FIGURE 1228

MELTIFILRLAIYILTFPLYLLNFLGLWSWICKKWFPYFLVRFTVIYNEQMASKKRELF SNLQEFAGPSGKLSLL
EVGCGTGANFKFYPPGCRVTCIDPNPNFEKFLIKSIAENRHLQFERFVVAAGENMHQVADGSVDVVVCTLVLCVS
KNQERILREVCRLRPGGAFYFMEHVAAECSTWNYFWQQVLDPAWHLLFDGCNLTRESWKALERASF SKLKLQHI
QAPLSWELVRPHIYGAVK

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FIGURE 1229

GGGCGGCGGTTCGGCAGCAAGGCGGCGGTGCGCCGCCGAGCTGCAGTGACATGTCCAGCATGAATCCCGAATATG
ATTATTTATTCAAGTTACTTCTGATTGGCGACTCAGGGGTGGAAAGTCTTGCCTTCTTCTTAGGTTTGCAGATG
ATACATATACAGAAAGCTACATCAGCACAATTGGTGTGGATTTCAAATAAGAACTATAGAGTTAGACGGGAAAA
CAATCAAGCTTCAAATATGGGACACAGCAGGCCAGGAAAGATTTCTGAACAATCACCTCCAGTTATTACAGAGGAG
CCCATGGCATCATAGTTGTGTATGATGTGACAGATCAGGAGTCCTTCAATAATGTTAAACAGTGGCTGCAGGAAA
TAGATCGTTATGCCAGTGAAAATGTCAACAAATTGTTGGTAGGGAACAAATGTGATCTGACCACAAAGAAAGTAG
TAGACTACACAACAGCGAAGGAATTTGCTGATTCCCTTGGAATTCGTTTTTGGAAACCAGTGCTAAGAATGCAA
CGAACGTAGAACAGTCTTTCATGACGATGGCAGCTGAGATTAAAAAGCGAATGGGTCCCGGAGCAACAGCTGGTG
GTGCTGAGAAGTCCAATGTTAAAATTCAGAGCACTCCAGTCAAGCAGTCAGGTGGAGGTTGCTGCTTAAATTTGCC
TCCATCCTTTTCTCACAGCAATGAATTTGCAATCTGAACCCAAGTGAA

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FIGURE 1230

MSSMNPEYDYLFLKLLLIGDSGVGKSCLLLRFADDTYTESYISTIGVDFKIRTIELDGKTIKLQIWDTAGQERFRT
ITSSYYRGAHGIIVVYDVTDQESFNNVKQWLQEIDRYASENVNKL LVGNKCDLTTKKVVDYTTAKEFADSLGIPF
LETSAKNATNVEQSFMTMAAEIKKRMGPGATAGGAEKSNVKIQSTPVKQSGGGCC

[illegible]

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FIGURE 1232

MRVLGGRCGAPLACLLLVLVPSEANLLSKQQASQVLVRKRRANSLLLEETKQGNLERECIEELCNKEEAREVFEND
PETDYFYPKYLVCLRSFQTGLFTAARQSTNAYPDLRSCVNAIPDQCSPLPCNEDGYMSCKDGKASFTCTCKPGWQ
GEKCEFDINECKDPSNINGGCSQICDNTPGSYHCCKNGFVMLSNNKKDCKDVDECSLKPSICGTAVCKNIPGDFE
CECPEGYRYNLKSKSCEDIDECSENMCQQLCVNYPGGYTCYCDGKKGFKLAQDQKSCEVVSVCLPLNLDTKYELL
YLAEQFAGVVLYLKFRLEISRFSAEFDFFRTYDSEGVILYAESIDHSAWLLIALRGGKIEVQLKNEHTSKITTGG
DVINNGLWNMVSVEELEHSISIKIAKEAVMDINKPGPLFKPENGLLETKVYFAGFPRKVESELIKPINPRLDGCI
RSWNLKQMGASGIKEIIQEKQNKHCLVTVEKGSYYPGSGIAQFHIDYNNVSSAEGWHVNVTLNIRPSTGTGVMLA
LVSGNNTVPFAVSLVDSTSEKSQDILLSVNTVIYRIQALSCLSDQQSHLEFRVNRNNLELSTPLKIETISHEDL
QRQLAVLDKAMKAKVATYLGGLPDVPFSATPVNAFYNGCMEVNINGVQLDLDEAISKHNDIRAHSCPSVWKKTKN
S

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FIGURE 1233

GGACACGAGGGCAGTGGAGGCTGAGGCTATCATATGGCGCCATGGCGACGGCTCGAGTGGCGATGGGGCCGCGGTGC
GCCCAGGCGCTCTGGCGCATGCCGTGGCTGCCGGTGTTTTTGTCTGTTGGCGGCGGCGGCGGCGGCGGCGAGCGGGC
GAGCAGCAGGTCCCGCTGGTGTCTGTGGTCGAGTGACCGGGACTTGTGGGCTCCTGCGGCCGACACTCATGAAGGC
CACATCACCAGCGACTTGCAGCTCTCTACCTACTTAGATCCCGCCCTGGAGCTGGGTCCCAGGAATGTGCTGCTG
TTCCTGCAGGACAAGCTGAGCATTGAGGATTTACAGCATATGGCGGTGTGTTTGGAAACAAGCAGGACAGCGCC
TTTTCTAACCTAGAGAATGCCCTGGACCTGGCCCCCTCCTCACTGGTGCTTCTGCGCTCGACTGGTATGCAGTC
AGCACTCTGACCACTTACCTGCAGGAGAAGCTCGGGGCCAGCCCCCTTGCATGTGGACCTGGCCACCCTGCGGGAG
CTGAAGCTCAATGCCAGCCTCCCTGCTCTGCTGCTCATTGCGCTGCCCTACACAGCCAGCTCTGGTCTGATGGCA
CCCAGGGAAGTCTCTACAGGCAACGATGAGGTTCATCGGGCAGGTCCTGAGCACACTCAAGTCCGAAGATGTCCCA
TACACAGCGGCCCTCACAGCGGTCCGCCCTTCCAGGGTGGCCCCGTGATGTAGCCGTGGTGGCCGGAGGGCTAGGT
CGCCAGCTGCTACAAAAACAGCCAGTATCACCTGTGATCCATCCTCCTGTGAGTTACAATGACACCGCTCCCCGG
ATCCTGTTCTGGGCCCAAACCTTCTCTGTGGCGTACAAGGACCAGTGGGAGGACCTGACTCCCCCTCACCTTTGGG
GTGCAGGAACCTCAACCTGACTGGCTCCTTCTGGAATGACTCCTTTGCCAGGCTCTCACTGACCTATGAACGACTC
TTTGGTACCACAGTGACATTCAAGTTTCACTTCTGGCCAACCGCCTCTACCCAGTGTCTGCCCCGGCACTGGTTTTAC
ATGGAGCGCCTCGAAGTCCACAGCAATGGCTCCGTCGCCTACTTCAATGCTTCCCAGGTACAGGGCCCAGCATC
TACTCCTTCCACTGCGAGTATGTGAGCAGCCTGAGCAAGAAGGGTAGTCTCCTCGTGGCCCCGCACGCAGCCCTCT
CCCTGGCAGATGATGCTTACAGGACTTCCAGATCCAGGCTTTCAACGTAATGGGGGAGCAGTTCTCCTACGCCAGC
GACTGTGCCAGCTTCTTCTCCCCCGGCATCTGGATGGGGCTGCTCACCTCCCTGTTTATGCTCTTTCATCTTACC
TATGGCCTGCACATGATCCTCAGCCTCAAGACCATGGATCGCTTTGATGACCACAAGGGCCCCACTATTTCTTTG
ACCCAGATTGTGTTGACCCCTGTGCCAGTGGGGGGGTTGAGGGTGGGACGGTGTCCGTGTTGTTGCTTTCCACCCT
GCAGCGCACTGGACTGAAGAGCTTCCCTCTTCTACTGCAGCATGAACTGCAAGCTCCCCCTCAGCCCATCTTGCT
CCCTCTTACAGCCCGCTGAGGAGCTTTCTTGGGCTGCCCCCATCTCTCCCAACAAGGTGTACATATTCTGCGTAGA
TGCTAGACCAACCAGCTTCCCAGGGTTCGTGCGCTGTGAGGCGTAAGGGACATGAATTCTAGGGTCTCCTTTCTCC
TTATTTATTCTTGTGGCTACATCATCCCTGGCTGTGGATAGTGCTTTTGTGTAGCAAATGCTCCCTCCTTAAGGT
TATAGGGCTCCCTGAGTTTGGGAGTGTGGAAGTACTACTTAACTGTCTGTCTGCTTGGCTGTGCTTATCGTTTT
CTGGTGATGTTGTGCTAACAATAAGCAGTACACGGGTTTTATTTCTGTGGCCTGAGAAGGAAGGGACCTCCACGAC
AGGTGGGCTGGGTGCGATCGCCGGCTGTTTGGCATGTTCCCAACGGGAGTGCCGGGCAGGAGCATGGGGTGCTTG
GTTGTTTCTTCTAATAAAATAAACCGGGGTCGCCATG

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FIGURE 1234

MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPAADTHEGHITSDLQLS
TYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLAPSSLVLPVLDWYAVSTLTTLTYLQE
KLGASPLHVDLATLRELKLNASLPALLLIRLPYTASSGLMAPREVLGTGNDEVIGQVLSTLKSEDVPYTAALTAVR
PSRVARDVAVVAGGLGRQLLQKQPVSPVIHPPVSYNDTAPRILFWAQNFVAYKDQWEDLTPLTFGVQELNLTGS
FWNDSFARLSLTYERLFGTTVTFKFILANRLYPVSARHWFMTMERLEVHNSGVSAYFNASQVTGPSIYSFHCEYVS
SLSKKGSLLVARTQPSPWQMMMLQDFQIQAFNVMGEQFSYASDCASFFSPGIWMGLLTSLFMLFIFTYGLHMLSL
KTMDRFDDHKGPTISLTQIV

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FIGURE 1235

ATGGCAGAGCAGTCGGACGAGGCCGTGAAGTACTACACCCTAGAGGAGATTGAGAAGCACAAACCACAGCAAGAGC
ACCTGGCTGATCCTGCACCACAAGGTGTACGATTTGACCAAATTTCTGGAAGAGCATCCTGGTGGGGAAGAAGTT
TTAAGGGAACAAGCTGGAGGTGACGCTACTGAGAACTTTGAGGATGTCGGGCACTCTACAGATGCCAGGGAAATG
TCCAAAACATTCATCATTGGGGAGCTCCATCCAGATGACAGACCAAAGTTAAACAAGCCTCCAGAACCTTAAAGG
CGGTGTTTCAAGGAAACTCTTATCACTACTATTGATTCTAGTTCCAGTTGGTGGACCAACTGGGTGATCCCTGCC
ATCTCTGCAGTGGCCGTCGCCTTGATGTATCGCCTATACATGGCAGAGGACTGAACACCTCCTCAGAAGTCAGCG
CAGGAAGAGCCTGCTTTGGACACGGGAGAAAAGAAGCCATTGCTAACTACTTCAACTGACAGAAACCTTCACTTG
AAAACAATGATTTTAAATATATCTCTTTCTTTTTCTTCCGACATTAGAAACAAAACAAAAGAACTGTCCTTTCTG
CGCTCAAATTTTTCGAGTGTGCCTTTTTATTTCATCTACTTTATTTTGATGTTTCCTTAATGTGTAATTTACTTAT
TATAAGCATGATCTTTTAAAAATATATTTGGCTTTTAAAGT

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FIGURE 1236

MAEQSDEAVKYYTLEEIQKHNHNSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDAREM
SKTFIIGELHPDDRPKLNKPPEP

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FIGURE 1237

CACAGCCGGGTCGCAGGCACCTCCCCXGCCAGCTCTCCCGCATTCTGCACAGCTTCCCGACGCGTCTGCTGAGCC
CC**ATG**GCCCACGCCACGCTCTCCGCCGCCCCCAGCAATCCCCGGCTCCTGCGGGTGGCGCTGCTGCTCCTGCTCC
TGGTGGGCAGCCGGCGCGCAGCAGGAGCGTCCGTGGTCACTGAACTGCGCTGCCAGTGCTTGCAGACACTGCAGG
GAATTCACCTCAAGAACATCCAAAGTGTGAATGTAAGGTCCCCCGGACCCCACTGCGCCCCAAACCGAAGTCATAG
CCACACTCAAGAATGGGAAGAAAGCTTGTCTCAACCCCGCATCCCCCATGGTTTCAGAAAATCATCGAAAAGATAC
TGAACAAGGGGAGCACCAACT**TGA**CAGGAGAGAAGTAAGAAGCTTATCAGCGTATCATTGACACTTCCTGCAGGGT
GGTCCCTGCCCTTACCAGAGCTGAAAATGAAAAAGAGAACAGCAGCTTTCTAGGGACAGCTGGAAAGGGACTTAA
TGTGTTTGACTATTTCTTACGAGGGTTCTACTTATTTATGTATTTATTTTTGAAAGCTTGTATTTTAATATTTA
CATGCTGTTATTTAAAGATGTGAGTGTGTTTCATCAAACATAGCTCAGTCCTGATTATTTAATTGGAATATGATG
GGTTTTAAATGTGTCATTAAACTAATATTTAGTGGGAGACCATAATGTGTCAGCCACCTTGATAAATGACAGGGT
GGGGAAGTGGAGGGTXGGGGGATTGAAATGCAAGCAATTAGTGGATCACTGTTAGGGTAAGGGAATGTATGTACA
CATCTATTTTTTATACTTTTTTTTTTAAAAAAGAATGTCAGTTGTTATTTATTCAAATTATCTCACATTATGTGT
TCAACATTTTTTATGCTGAAGTTTCCCTTAGACATTTTATGCTTGCTTGTAGGGCATAATGCCTTGTTTAATGTC
CATTCTGCAGCGTTTCTCTTTCCCTTGAAAAAGAGAATTTATCATTACTGTTACATTTGTACAAATGACATGATA
ATAAAAGTTTTATG

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FIGURE 1238

MAHATLSAAPSNPRLLRVALLLLLLLVGSRRAAGASVVTELRCQCLQTLQGIHLKNIQSVNVRSPGPHCAQTEVIA
TLKNGKKACLNPA SP MVQKIEKILNKGSTN

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FIGURE 1239

ATACAGGACAGAGC**ATG**GCTCGCCTACAGACTGCACTCCTGGTTGTCCTCGTCCTCCTTGCTGTGGCGCTTCAAG
CAACTGAGGCAGGCCCCCTACGGCGCCAACATGGAAGACAGCGTCTGCTGCCGTGATTACGTCCGTTACCGTCTGC
CCCTGCGCGTGGTGAAACACTTCTACTGGACCTCAGACTCCTGCCCCGAGGCCTGGCGTGGTGTGCTAACCTTCA
GGGATAAGGAGATCTGTGCCGATCCCAGAGTGCCCTGGGTGAAGATGATTCTCAATAAGCTGAGCCAA**TGA**AGAG
CCTACTCTGATGACCGTGGCCTTGGCTCCTCCAGGAAGGCTCAGGAGCCCTACCTCCCTGCCATTATAGCTGCTC
CCCGCCAGAAGCCTGTGCCAACTCTCTGCATTCCCTGATCTCCATCCCTGTGGCTGTACCCCTTGGTCACCTCCG
TGCTGTCACTGCCATCTCCCCCCTGACCCCTCTAACCCATCCTCTGCCTCCCTCCCTGCAGTCAGAGGGTCCTGT
TCCCATCAGCGATTCCCCTGCTTAAACCCTTCCATGACTCCCCACTGCCCTAAGCTGAGGTCAGTCTCCAAGCC
TGGCATGTGGCCCTCTGGATCTGGGTTCATCTCTGTCTCCAGCCTGCCCACTTCCCTTCATGAATGTTGGGTTC
TAGCTCCCTGTTCTCCAAACCATACTACACATCCCACTTCTGGGTCTTTGCCTGGGATGTTGCTGACACTCAGA
AAGTCCCACCACCTGCACATGTGTAGCCCCACCAGCCCTCCAAGGCATTGCTCGCCCAAGCAGCTGGTAATTCCA
TTTCATGTATTAGATGTCCCTGGCCCTCTGTCCCTCTTAATAACCCTAGTCACAGTCTCCGCAGATTCTTGGG
ATTTGGGGGTTTTCTCCCCACCTCTCCACTA

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FIGURE 1240

MARLQTALLVVLVLLAVALQATEAGPYGANMEDSVCCRDYVRYRLPLRVVKHFYWTSDSCPRPGVVLLTFRDKEI
CADPRVPWVKMILNKLSQ

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FIGURE 1241

TTAGCAATAAGGCTGGAGAAGGAAAAGCCGGCGCGCCCGCGGCCGCGGATTTCCTCGCCGAGCCCGCGTCCCCG
GCGGCGGGCGGGCTCCGGGGGCGCCCGGGCCGCGGCGGCGGCGGCGGCGGAGCTGCGCCTCCGGGCCGGTGAATC
ATCCCGGCAGACACCAAGAGCCGCGGCAGCAGAGAGGAGCGCTGAAACATGGCTGAAGCGGCCACGGGGCTTTCTG
GAGCAGCTCAAGTCCTGCATAGTTTGGTCTTGGACGTATCTGTGGACCGTGTGGTTCTTCATCGTGCTATTCTTG
GTCTACATCCTGCGGGTGCCCTTTGAAAATCAACGACAACCTTGAGCACAGTGAGCATGTTTTTGAACACATTAAACA
CCGAAGTTCTACGTGGCCCTAACAGGCACCTTCCTCACTAATATCAGGGCTTATTTTGATATTTGAATGGTGGTAT
TTTCGCAAATACGGAACCTTCATTCAATTGAACAAGTCTCAGTAAGCCACTTGCGCCCCCTTCTGGGAGGGGTGAC
AACAACCTCTTCCAACAATTCTAATTCCAGTAACGGGGACTCAGATTCCAATAGGCAAAGTGTCTCAGAATGCAAA
GTATGGCGAAATCCACTAAATTTATTTAGGGGTGCTGAATACAATCGGTATACTTGGGTGACAGGACGAGAGCCT
CTTACTTACTATGACATGAATCTCTCTGCCCAAGACCACCAGACATTCTTTACTTGTGACTCGGACCATCTGCGT
CCCGCAGATGCAATAATGCAGAAAGCCTGGAGAGAGAGAAAACCCCAAGCTAGGATTTCTGCAGCTCATGAAGCC
TTGGAGATAAATGAGTGTGCAACTGCTTATATTCTCTTGGCTGAAGAGGAAGCAACAACCATTGCTGAAGCAGAA
AAATTATTTAAGCAGGCCCTGAAGGCTGGAGATGGCTGTTACCGACGCTCTCAGCAGCTACAACATCATGGATCC
CAGTATGAAGCCCAACATAGACGAGACACCAATGTCTTGGTGTACATCAAAGAAGGCTAGCAATGTGTGCCAGA
AGACTCGGGAGGACCAGGGAAGCAGTGAAAATGATGAGAGATTTAATGAAGGAGTTCCCCCTTCTGAGTATGTTT
AATATCCATGAAAACCTTTTAGAAGCCCTTCTGGAACACAAAGCATATGCTGATGTTTCAGGCAGTCTTAGCAAAAG
TATGATGATATAAGCTTACCAAAGTCAGCAACAATATGCTACACAGCTGCTTTGCTCAAAGCAAGAGCTGTCTCT
GACAAATTCTCTCCTGAGGCTGCATCTCGGCGGGGGCTGAGCACAGCAGAGATGAATGCAGTAGAGGCCATTTCAT
AGAGCTGTGGAATTCAATCCTCATGTGCCAAAATACCTACTAGAAATGAAAAGCTTAATCCTACCCCCAGAACAT
ATCCTGAAGAGAGGAGACAGTGAAGCAATAGCATATGCATTCTTTTCATCTTGACACTGGAAGAGAGTGAAGGG
GCTTTGAATCTTTTGCAATTGTACGTGGGAAGGCACTTTTCGGATGATCCCTTATCCCTTGAAAAAGGGGCACCTA
TTTTATCCTTACCCAATCTGTACAGAAACAGCAGACCCGAGAGCTGCTTCCATCTTTCCATGAAGTCTCAGTTTAC
CCAAAGAAGGAGCTTCCCTTCTTTATTCTCTTTACTGCTGGATTATGTTTCCTTACAGCCATGCTGGCCCTCCTG
ACACATCAGTTCCCGGAACCTTATGGGGGTCTTCGCAAAAAGCTTTCCTCAGCACTTTGTTTGCCCCCTTAAACTTT
GTCATGGAGAAAAGTGGAGAGCATCCTCCCATCCAGTCTGTGGCACCAGCTAACACGGATCTGAGAGAAGCCCTGT
CCTCCACTCACCTCACCCGCCGCTGCCACCATCTCCTCTGTGCCAACTCCTTGTGGACCGCAAGAAAGCATGACT
TTGAAAAAAGGGAAGCCATTCCGAGATTTTAAATGTTTCATGGACTATTCCATATTAAAAGCTGTTTTTGTGTG
TACAAAAA

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FIGURE 1242

MACRWSTKESPRWRSALLLLFLAGVYGNALAEHSENVHISGVSTACGETPEQIRAPSGIITSPGWPSEYPAKIN
CSWFIRANPGEIITISFQDFDIQGSRRCNLDWLTITETYKNIESYRACGSTIPPPYISSQDHIWIRFHSDDNISRK
GFRLAYFSGKSEEPNCACDQFRCGNGKCIPEAWKCNNMDECGDSSDEEICAKEANPPTAAAFQPCAYNQFQCLSR
FTKVYTCLPESLKCDGNIDCLDLGDEIDCDVPTCGQWLKYFYGTFNPNYPDFYPPGSNCTWLIDTGDHRKVILR
FTDFKLDGTGYGDYVKIYDGLEENPHKLLRVLTAFDASHAPLTVVSSSGQIRVHFCADKVNAARGFNATYQVDGFC
LPWEIPCGGNWGCYTEQQRCDDGYWHCPNGRDETNTMCQKEEFPCSRNGVCYPRSDRCNYQNHCPNGSDEKNCFF
CQPGNFHCKNNRCVFESWVCDSDDCGDSDEENCPVIVPTRVITAAVIGSLICGLLLVIALGCTCKLYSLRMFE
RRSFETQLSRVEAELLRREAPPSYGQLIAQGLIPPVEDFPVCSNPQASVLENLRLAVRSQLGFTSVRLPMAGRSS
NIWNRIFFNFARSRHSGSLALVSADGDEVVPSQSTSREPERNHHRSLFSVESDDTDTENERRDMAGASGGVAAPL
PQKVPEPTTAVEATVGACASSSTQSTRGGHADNGRDVTSEPPSVSPARHQLTSALSRMTQGLRWVRFTLGRSSSL
SQNQSPLRQLDNGVSGREDDDDVEMLIPISDGSSDFDVNDCSRPLLDLASDQGQGLRQPYNATNPGVRPSNRDGP
CERCGIVHTAQIPDTCLEVTLKNETSDDEALLC

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FIGURE 1243

CTCACTGCCACACGCAGCTCAACCTGAGCTACACAGCCAGATGCGAGATGCTTCTCTGCTGATCTGAGTCTGCCT
GCAGCATGGACCTTGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCGAGGGCTCATCC
ATCCGCAGAGCAGGGCAGTGGGAGGAGACGCT**ATG**ACCCCCATCGTACAGTCCTGATCTGTCTCAGGCTGAGTC
TGGGCCCCCGGACCCACGTGCAGGCAGGGACCCCTCCCCAAGCCCACACTCTGGGCTGAGCCAGGCTCTGTGATCA
CCCAGGGGAGTCCCGTGACCCCTCTGGTGTCTAGGGGATCCTGGAGACCCAGGAGTACCGTCTGTATAGAGAAAAGA
AAACAGCACCCCTGGATTACACGGATCCACAGGAGATTGTGAAGAAGGGCCAGTTCCCCATCCCATCCATCACCT
GGGAACACACAGGGCGGTATCGCTGTTTCTACGGTAGCCACACTGCAGGCTGGTCAGAGCCCAGTGACCCCTGG
AGCTGGTGGTGACAGGAGCCTACATCAAACCCACCCCTCTCAGCTCTACCCAGCCCTGTGGTGACCTCAGGAGGGA
ACGTGACCCCTCCATTGTGTCTCACAGGTGGCATTGGGCAGTTTATTCTGTGTAAGGAAGGAGAAGATGAACACC
CACAATGCCTGAACTCACAGCCCCGTACCCATGGGTGGTCCCGGGCCATCTTCTCTGTGGGCCCCGTGAGCCCGA
GTCGCAGGTGGTCTGACAGGTGCTATGCTTATGACTCGAACTCTCCCCATGTGTGGTCTCTACCCAGTGATCTCC
TGGAGCTCCTGGTCTAGGTGTTTCTAAGAAGCCATCACTCTCAGTGCAGCCAGGTCTATAGTGGCCCTGGGG
AGAGCCTGACCCCTCCAGTGTGTTTCTGATGTCAGCTACGACAGATTTGTTCTGTATAAGGAGGGAGAACGTGACT
TCCTCCAGCTCCCTGGCCACAGCCCCAGGCTGGGCTCTCCAGGCCAACTTCACCCTGGGCCCCGTGAGCCGCT
CCTACGGGGGGCCAGTACAGATGCTCCGGTGCATACAACCTCTCCTCCGAGTGGTCCGGCCCCAGCGACCCCTGG
ACATCCTGATCGCAGGACAGTTCCGTGGCAGACCCCTTCATCTCGGTGCATCCGGGCCCCACGGTGGCCTCAGGAG
AGAACGTGACCCCTGCTGTGTCAGTCATGGGGGCGTTCCACACTTTCCTTCTGACCAAGGCGGGAGCAGCTGATG
CCCCCTCCGTCTCAGATCAATACAGAAATATCCTAAGTACCAGGCTGAATTCCTATGAGTCCTGTGACCTCAG
CCCCTCGGGGACCTACAGGTGCTACGGCTCACTCAGCTCCAACCCCTACCTGCTGTCTCACCCAGTGACTCCC
TGGAGCTCATGGTCTCAGGAGCAGCTGAGACCCCTCAGCCCACCACAAAACAAGTCCGATTCCAAGGCTGGAGCAG
CTAACACCCCTCAGCCCATCACAAAACAAGACTGCCTCACACCCCCAGGATTACACAGTGGAGAATCTCATCCGCA
TGGGCATAGCTGGCTTGGTCTCTGGTGGTCTCGGGATTCTGCTATTTGAGGCTCAGCACAGCCAGAGAAAGCCTCT**T**
GAGATGCAGCCGGGAGGTGAACAGCAGAGAGAAGAATGTACCCTTCAGAGTGGTGGAGCCTTGGGAACAGATCTG
ATGATGCCAGGAGGTTCCGGGAGACAATTTAGGGCTGATGTTATCTGGACTGTCTGCCAATCATTTTTTAGAGGGA
GGAATCAGTGTTGGATTGCAGAGACATTTTCTGGAGTGATCCATGAAGGACCATTAAACATGTGATACCTTTCTC
TCTATTAATGTTGACTTCCCTTGGTTGGATCCTCT

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FIGURE 1244

MTPIVTVLICLRSLGPRTHVQAGTLPKPTLWAEPGSVITQGSPVTLWCQGILETQEYRLYREKKTAPWITRIPO
EIVKKGQFPIPSITWEHTGRYRCFYGSHTAGWSEPSDPLELVVTGAYIKPTLSALPSPVVTSGGNVTLHCVSQVA
FGSFILCKEGEDEHPQCLNSQPRTHGWSRAIFSVGPVSPSRRWSYRCYAYDSNSPHVWSLPSDLLELLVLGVSKK
PSLSVQPGPIVAPGESLTLQCVSDVSYDRFVLYKEGERDFLQLPGPQPQAGLSQANFTLGPVSRSYGGQYRCSGA
YNLSSEWSAPSDPLDILIAGQFRGRPFISVHPGPTVASGENVTLLCQSWGPFHTFLLTKAGAADAPLRLRSIHEY
PKYQAEFPMSPV TSAHSGTYRCYGSLSNPYLLSHPSDSLELMVSGAAETLSPPQNKSDSKAGAANTLSPSQNK
ASHFQDYTVENLIRMGIAGLVLVVLGILLFEAQHSQRL

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FIGURE 1245

GAGGTTGAAGGACCCAGGCGTGTCAGCCCTGCTCCAGAGACCTTGGGC**ATG**GAGGAGAGTGTCGTACGGCCCTCA
GTGTTTGTGGTGGATGGACAGACCGACATCCCATTCACGAGGCTGGGACGAAGCCACCGGAGACAGTCGTGCAGT
GTGGCCCGGGTGGGTCTGGGTCTCTTGCTGTTGCTGATGGGGGCTGGGCTGGCCGTCCAAGGCTGGTTCCTCCTG
CAGCTGCACTGGCGTCTAGGAGAGATGGTCACCCGCTGCCTGACGGACCTGCAGGCTCCTGGGAGCAGCTGATA
CAAGAGCGAAGGTCTCACGAGGTCAACCCAGCAGCGCATCTCACAGGGGCCAACTCCAGCTTGACCGGCAGCGGG
GGGCCGCTGTTATGGGAGACTCAGCTGGGCCTGGCCTTCCTGAGGGGCCTCAGCTACCACGATGGGGCCCTTG
GTCACCAAAGCTGGCTACTACTACATCTACTCCAAGGTGCAGCTGGGCGGTGTGGGCTGCCCCTGGGCCTGGCC
AGCACCATCACCCACGGCCTCTACAAGCGCACACCCCGCTACCCCGAGGAGCTGGAGCTGTTGGTCAGCCAGCAG
TCACCTTGCGGACGGGCCACCAGCAGCTCCCGGGTCTGGTGGGACAGCAGCTTCCTGGGTGGTGTGGTACACCTG
GAGGCTGGGGAGGAGGTGGTCGTCCGTGTGCTGGATGAACGCCTGGTTCGACTGCGTGATGGTACCCGGTCTTAC
TTCGGGGCTTTTCATGGTG**TGA**AGGAAGGAGCGTGGTGCAATTGGACATGGGTCTGACACGTGGAGAACTCAGAGGG
TGCTCAGGGGAAAGAAAACCTACGAAGCAGAGGCTGGGCGTGGTGGCTCTCGCCTGTAATCCAGCACTTTGGG
AGGCCAAGGCAGGCGGATCACCTGAGGTCAGGAGTTCGAGACCAGCCTGGCTAACATGGCAAAACCCATCTCTA
CTAAAAATACAAAAATTAGCCGGACGTGGTGGTGCCTGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGATA
ATTTTGCTTAAACCCGGGAGGCGGAGGTTGCAGTGAGCCGAGATCACACCACTGCACTCCAACCTGGGAAACGCA
GTGAGACTGTGCCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1246

MEESVVRPSVFVVDGQTDIPFTRLGRSHRRQSCSVARVGLGLLLLLMGAGLAVQGWFLQLHWRLGEMVTRLPDG
PAGSWEQLIQERRSHEVNPAAHLTGANSSTGSGGPLLWETQLGLAFLRGLSYHDGALVVTKAGYYYIYSKVQLG
GVGCPLGLASTITHGLYKRTPRYPEELELLVSQQSPCGRATSSSRVWWDSSFLGGVVHLEAGEEVVVRVLDERLV
RLRDGTRSYFGAFMV

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FIGURE 1247

TTTTTTTTTCCAGCCAAGCAGCAGCTTTATTAGTGGTGCTGGGTTCTTCCCATACCCTACAGCGTGCTCGGAAGC
ATTCGCGCGCCGGGCTGCCAGACACCTGCGCCCTTCTGCAGCCGCCCCGCCGATCCGCCGCCGAGCCCCCAGCA
TGTCGGGCCCAGACGTGAGACGCCGTCCGCCATCCAGATCTGCCGGATCATGCGGCCAGATGATGCCAACGTGG
CCGGCAATGTCCACGGGGGGACCATCCTGAAGATGATCGAGGAGGCAGGCGCCATCATCAGCACCCGGCATTGCA
ACAGCCAGAACGGGGAGCGCTGTGTGGCAGCCCTGGCTCGTGTGAGCGCACCGACTTCTGTCTCCCATGTGCA
TCGGTGAGGTGGCGCATGTGAGCGCGGAGATCACCTACACCTCCAAGCACTCTGTGGAGGTGCAGGTCAACGTGA
TGTCGGAACATCCTCACAGGTGCCAAAAAGCTGACCAATAAGGCCACCCTGTGGTATGTGCCCCCTGTCGCTGA
AGAATGTGGACAAGGTCTCGAGGTGCCCTCCTGTTGTGTATTCCCGGCAGGAGCAGGAGGAGGAGGGCCGGAAGC
GGTATGAAGCCAGAAGCTGGAGCGCATGGAGACCAAGTGGAGGAACGGGGACATCGTCCAGCCAGTCTCAACC
CAGAGCCGAACACTGTGAGCTACAGCCAGTCCAGCTTGATCCACCTGGTGGGGCCTTCAGACTGCACCCTGCACG
GCTTTGTGCACGGAGGTGTGACCATGAAGCTCATGGATGAGGTGCGCGGGATCGTGGCTGCACGCCACTGCAAGA
CCAACATCGTCACAGCTTCCGTGGACGCCATTAATTTTCATGACAAGATCAGAAAAGGCTGCGTCATCACCATCT
CGGGACGCATGACCTTCAGAGCAATAAGTCCATGGAGATCGAGGTGTTGGTGGACGCCGACCCTGTTGTGGACA
GCTCTCAGAAGCGCTACCGGGCCGCCAGTGCCTTCTTCACCTACGTGTCGCTGAGCCAGGAAGGCAGGTGCTGTC
CTGTGCCCCAGCTGGTGCCCGAGACCGAGGACGAGAAGAAGCGCTTTGAGGAAGGCAAAGGGCGGTACCTGCAGA
TGAAGGCGACGATCAGGGCCACGCGGACGCTCAGCCCTAGACTCCCTCCTCCTGCCACTGGTGCCCTCGAGTAGCC
ATGGCAACGGGGCCAGTGTCCAGTCACTTAGAAGTTCCCCCTTGGCCAAAAACCAATTCACAT**TG**AGAGCTGG
TGTTGTCTGAAGTTTTCGTATCACAGTGTTAACCTGTACTCTCTCTGCAAACCTACACACCAAAGCTTTATTTA
TATCATTCAGTATCAATGCTACACAGTGTTGTCGCGAGCGCCGGGAGGCGTTGGGCAGAAACCTCGGGAATGC
TTCCGAGCACGCTGTAGGGTATGGGAAGAACCCAGCACCCTAATAAAGCTGCTGCTTGGCTGGAAA

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FIGURE 1248

MSGPDVETPSAIQICRIMRPDDANVAGNVHGGTILKMIEEAGAIISTRHCNSQNGERCVAALARVERTDFLSPMC
IGEVAVHVS AEITYTSKHSVEVQVNVMS ENILTGAKKLTNKATLWYVPLSLKNVDKVLEVPPVVYSRQEQEEEGRK
RYEAQKLERMETKWRNGDIVQPVLNPEPNTVSYSSQLIHLVGPSDCTLHG FVHGGVTMKLMDEVAGIVAARHCK
TNIVTASVD AINFHDKIRKGCVITISGRMTFTSNKSMEIEVLVDADPVVDSSQKRYRAASAFFTYVSLSQEGRSL
PVPQLVPETEDEKKRFEEGKGRYLQMKATIRATRTLSPRLPPPATGASSSHGNGPSVQSLRSSPLGQKPN SH

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FIGURE 1249A

GGAGGGCCTCGGCTTTCCAGGGACAGAGGCCAACTCCAGGACGCCCCAGCTGGCCCAGCCCCCTCCTCTTTCCCT
CAAGGCTGCAGGAGGTTCGGAAAGGCAGTCCTGGTAGAGGCTGTCTGGGCTCCAGGTTGGCCCCCTGAGGGTGG
CCCTCCTCATGCCGGCTTCAAGACTGAGGGACAGGGCAGCCAGTTCAGCCTCGGGATCCACCTGTGGCTCCATGT
CCCAGACGCACCCCTGTGCTGGAGAGCGGCCTCCTGGCATCTGCCGGCTGCTCCGCACCCCCGGGGTCCCAGGAAGG
GCGGCCCCAGCCCCAGTGGACAGGAAAGCTAAGGCCCTCAGCGATGCCGGACTCCCCAGCGGAGGTGAAGACGCAGC
CCCGGTCCACACCCCCCAGCATGCCGCCCCACCGCTGCCGCATCCCAGGGGGCCACACGCCCCCCTCCTTCA
CGCCACACACACATCGAGAGGACGGGCCTGCGACGCTGCCCCACGGCCGTTTTTCATGGCTGCTTAAATGGTCTA
TGGTCTGTCTCTTGATGAACGGCAGCAGCCACTCACCAACAGCCATCAATGGTGCACCGTGCACACCCAACGGCT
TCAGCAATGGCCCCGGCCACCTCGTCCACAGCCTCCTTGTCACACAGCACCTGCCCCAGCCTGCGGGGCCCGGC
AGCTCAGCAAGCTCAAGCGCTTCTCACCACACTGCAGCAGTTTGGCAGCGACATCTCCCCAGAGATTGGGGAGC
GCGTGCGCACACTGGTGCTGGGCCTGGTGAACCTGACATTGACGATCGAGGAGTTTCATTCCAAGCTTCAGGAGG
CCACCAACTTCCCTCTGCGGCCGTTTGTATTCCCTTCCTGAAGGCAAACCTGCCCTTGCTGCAGCGGGAGCTCC
TGCACTGTGCACGCCTGGCCAAGCAGACGCCCCGCCAGTACTTGGCCCAGCATGAGCAGCTCCTGCTGGACGCCA
GCGCCTCCTCCCCCATCGACTCCTCAGAGCTGCTACTGGAAGTCAACGAGAACGGCAAGAGGAGGACGCCCGACA
GGACCAAAGAGAACGGGTGAGAACGCGACCCGCTGCACCCCGAGCACCTCAGCAAACGGCCATGCACCCTGAACC
CTGCCCAGCGCTACAGCCCCAGCAAACGGGGCCACCGCAGCCACACCGCCGCGCCTACTACCGCTGGAGGACATAG
CCATGGCCCCACCACTTCCGAGATGCCTACCGCCACCCAGACCCCCGGGAGCTACGAGAGCGCCATCGGCCGCTTG
TGGTGCTGGGTCCCGGCAGGAAGAAGTGATCGACCACAAGCTCACAGAGCGTGAGTGGGCAGAAAGAGTGGAAGC
ACCTCAACAACCTCCTGAACTGCATCATGGACATGGTGGAGAAGACGCGGCGCTCGCTCACGGTGTGCGCAGGT
GCCAGGAGGCCGACCGCGAGGAGCTCAACCACTGGGCGCGGCGCTACAGCGACGCCGAGGACACAAAGAAGGGCC
CCGCTCCCCGCCGCGGGCCCGCCCCGCGCAGCAGCTCCGCCGGTCCCGAAGGGCCTCAGCTAGACGTGCCTCGCGAGT
TCCTGCCGAGGACCCTCACCGGTACGTGCCTGAGGACATCTGGAGGAAGGCTGAAGAGGCCGTGAATGAGGTGA
AGCGGCAGGCCATGTGCGAGCTGCAGAAAGCCGTGTGCGACGCGGAGCGCAAAGCGCACGAGCTCATCACCACGG
AGCGTGCCAAGATGGAGCGGGCCCTGGCCGAGGCGAAGCGGCAGGCCTCCGAGGACGCCCTGACGGTCACTCAACC
AGCAGGAGGACTCCAGCGAGAGCTGCTGGAACCTGCGGGCGGAAAGCCAGTGAGACGTGCAGCGGCTGCAACGCGG
CACGCTACTGCGGGTCTTCTGCCAGCATCGGGACTGGGAGAAGCATCACCACGTGTGTGGCCAGAGCCTGCAGG
GCCCCACAGCCGTGGTGGCCGACCCGGTGCCTGGACCGCCCGAAGCCGCCACAGCCTGGGCCCCCTCCTGCGCTG
TGGGTGCTGCCAGCCCCAGCGAAGCCGGCTCTGCGGGGCTTCTCGCCCCGGCTCCCCAGCCACCTGGCCCCAC
TGGACACCGTGCCCCGCTTGACCCCACTGGCCCCCTGGCCTGCCGGACACAGCACCGTGCCAACCCACCCAGCTCC
AGGCCCCACCGGATGCTGTGCTGGCCTCCGATGCCTGGCCTGCCAGACACTGCGCCCCGCTGACCTGKGGGAGC
CGACCAATTAGTCACTGCTGCTACTGCCCCCTCTCGAAAGAAGACACAGAACCAACAAAACCGCATTCACTGCAC
CTGCCTCAGCTACCTAATGATTCCGCGCGGAGACCTCCTGACAACGTCTCTTCAAGCATCCTCAGAAGCCTCGAC
TGAGCTTTAGACAGCAGAGCAGATGCCGCGAGGCGGGCGGCTCTGCCACCTCTCTTTTCTCTCTGTCTGTCTC
TCCCCCTCTGTCTTCTCTATCCTCTCTCTCTATGACTATCACACACTTTCTCTTCAATGAAAAAATCGAATTG
GTGGCTTATATTTTCAGCAAAGAATTTTGGGGGGTTTTGTGTGTTGGCAAAGAGCTACTCAGAAATGGACAAAG
AAAACGGGGGGGTTCTCCCCCTCCTGATTAAAAAGGGAGAAAGAAACTGCGATTTTATAGCTGGAGATCTGAAC
CCAGCTGTGCCCCCTCCCCCAGGGGCGTGAGGCTGATCAGCGAAGACGGGAGGAAAGATTTGATTTCTGACTCAA
GATGCATTTTTGGTTTCAGATTTTTTTTTCTGTAAATGTTAACTCTTTGGCTTTAAGTAAAAATCCAAAAAGTT
TTTTTAAAAAAGCAAAGGAAGCATACTTGTGAACTACCTTGCTAGCTAGCCAGCCAAGGATACCGGACACACCTC
TGCTCCAAAGGAAATCCAAAAAGCAAACACAAGAAATCAAAATCCAAATTTGTTTGTCACTGCCAAAGTATTT
TTTTCACTGTTTCACTTGCTCTTGGGTTTGGTTTGGATGTGGGTCTTTTTCTCTTCTGTTCTGATTTTGTGTG
GTGTGCGGGATATTTGGGTGCAGAGGGTTTGTGCCAGTTAGAAGCGACTTTTGTCTCTTCTGCGTAGGCGTTGG
TGCGTCCGCCGCGTGTGCGTGGTCCGTGTGCCGTTGCTCCGGCCTGCGTCTCCATATGTGTAGGAAAGGACACGC
CGTCTGTCTCACGCCCCCTGTGACTTTTTCATATTTCCGTTTTCCACTTGTGGAAAAAAGTGCTAAAGTTTTCT
TCCCAGAGAGAGCATAATTCCGAAACAAAAGTGTGACAATCTTTTGGGTTGATTCTCGACTGCTTTTCGAGCATG
CGGAGCCAGCAGGCCTCCCTGAAACACTGCTTCTCGGCCAGCCCGTCTCTCTACCTCTCTCTCTCCGCGCCC
TCCGACCTCTCTCGGCCCCCTCACCCAGCTCCGACCTCTCTCAGCCCCATCGCCCCAACTCCAACCTCTCGGCC
CCATCGCCCCACCGCAGCTACTCCCCTTTCTTCCAAACTTTTGCAGAAAAACAAAAAACTACAAACAAAAGCA

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FIGURE 1249B

GCCCTCTGCCTCCTCCCCAGGGAAGACCCTGACCGTGTACATAGCCCTGGTGCTCCTGCCCAGCCACCCCTCAGA
TGCGTTCGCCTCTGGCCCTGGGGTGTGTCTCGGTGACGTTTTCTATCAGACGTGCTCCCTCCCATCCTCCAGCCC
TGCCCACCCCTCCCTCCACTCCTCTCAACTGCCTCAGCGATTTCAAGAAGGAAATAAAGGGATAAAGAAATTCATG
CTTGCACCGAGTACAAGGACAGACAGCAGGCACGGCCCGCAGCCTGGCATCTGTGCGTGTGGCGTGGCCCGTGGC
TTGGCATCTGTGTGCGTGGTGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCGTGGCCCGTGGCCTGGCATCTGT
GTGTGTGGCGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCGTGGCCCGTGGCCTGGCATCTGTGTGCGTGGCTA
TCAGGAGTTCTAGGAACTCAGTGCAATACGGGAGTGACCCAGCTACTGAACCAGCCACGAACAGCCCGCCAGAGG
CCTGAAGCTGAGCGTGTACGTTAATGTGAATGTATATAGTCTTTGCAGAGGTCCAAATGATATTCATGATGGTAA
TAAACGAGATGTTTGCCAAAT

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FIGURE 1250

MPASRLRDRAASSASGSTCGSMSQTHPVLESGLLASAGCSAPRGPRKGGPAPVDRKAKASAMPDSPA EVKTQPRS
TPPSMPPPPPAASQGATRPPSFTPHTHREDGPATLPHGRFHGCLKWSMVCLLMNGSSHSP TAINGAPCTPNGFSN
GPATSSTASLSTQHLPPACGARQLSKLKRFLTTLQQFGSDISPEIGERVRTLVLGLVNSTLTIEEFH SKLQEATN
FPLRPFVIPFLKANLPLLQRELLHCARLAKQTPAQYLAQHEQLLLDASASSPIDSELLEVNENGKRRTPDRTK
ENGSE RDPLHPEHLSKRPCTLNPAQRYSPSNGPPQPTPPPHYRLEDIAMAHHFRDAYRHDPREL RERHRPLVVP
GSRQEEVIDHKLTEREWAEWKHLNLLNLCIMDMVEKTRRSLTVLRRQC EADREELNHWARRYSDAEDTKKGPAP
AAARPRSSSAGPEGPQLDVPREFLPRTLTYVPEDIWRKAE EAVNEVKRQAMSELQKAVSDAERKAHELIT TERA
KMERALAEAKRQASEDALTVINQQEDSSESCWNCGRKASETCSGCNAARYCGSFCQHRDWEKHHHVCGQSLQGPT
AVVADPVPGPPEAAHSLGPSLPVGAASPSEAGSAGPSRPGSPSPPGPLDTVPR

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FIGURE 1251A

GAGAGACACGAATATGTTTTAGCCGCAACAGGCTGCGTTTCAGCCGGAAGAGTGAAAGGGCACCTTGAAAACGCA
AGTTT**ATGA**ATATGTTTCTGTACTTTTACAGACCATCATCAAAGAGGGGATGCTGACCAAACAGAACAAATTCATTCC
AGCGATCAAAAAGGAGATACTTTAAGCTTCGAGGGCGAACGCTTTACTATGCCAAAACGGCAAAAGTCAATCATAT
TTGATGAGGTGGATCTGACAGATGCCAGCGTAGCTGAATCCAGTACCAAAAACGTCAACAACAGTTTTACGGTCA
TAACTCCATGCAGGAAGCTCATCTTGTGTGCTGATAACAGAAAAGAAATGGAAGATTGGATTGCAGCATTAAGA
CTGTGCAGAACAGGGAGCACTTTGAGCCCCACCCAGTACAGCATGGACCACTTCTCAGGGATGCACAATTGGTACG
CCTGTTCCACGCGAGGCCGACCTACTGCAATGTGTGCCGTGAGGCTCTGTCTGGGGTCACGTCGCACGGGCTGT
CCTGCGAGGTGTGCAATTTAAGGCCCCACAAGCGCTGTGCTGTGCGTGCAACCAATAACTGCAAGTGGACCACAC
TGGCCTCGATCGGGAAGGACATCATTGAAGATGCAGATGGGATTGCAATGCCCCACCAAGTGGTTGGAAGGAAACC
TACCTGTGAGCGCCAAGTGCATGTGTGCGACAAGACCTGTGGCAGTGTGCTGCGCCTGCAGGACTGGCGCTGCC
TCTGGTGCAAGGCCATGGTTTACACATCGTGTAAGAATCCTTGCTGACCAAGTGGCCACTTGGCCTGTGCAAAG
TGTCAGTCATCCACCCACGGCTCTCAACAGCATCGACTCCGATGGGTTCTGGAAGGCCAGCTGTCTCTCTTCTT
GCACAAGCCCACTGTTGGTCTTCGTCAATTCAAAAAGTGGGGACAACCAGGGTGTGAAGTTCCTCAGAAGATTCA
AACAGCTACTAAACCCCGCCAGGTCTTCGACCTCATGAACGGAGGGCCACACCTCGGCTTACGGTTATTCCAGA
AGTTTGACACATTCCGGATTCTGGTTTGTGGCGGGGATGGAAGTGTGGCTGGGTCTCTCCGAAATCGACAGCC
TCAACCTTCATAAACAGTGTGAGCTGGGAGTGTGCCGCTCGGCACAGGGAACGACTTGGCCCGAGTACTGGGCT
GGGGCTCAGCCTGCGATGACGACACCCAGCTCCCCCAGATCTTGAGAAGTTGGAGAGAGCCAGCACCAAGATGC
TGGACAGGTGGAGCGTCATGGCATAAGGCAAGCTCCCCCGGCAGGCTCCTCCTCTACCGTCAACGAAGACT
TCAGCGAGGATTCCGAGGTACAGCAGATTCTCTTCTATGAAGACTCGGTTGCAGCCACCTTTCTAAAAATCCTCA
CCTCGGACCAGCACTCGGTGGTCATCTCTCGGCCAAAGTGCTCTGTGAGACGCCGAAGGACTTCGTGGCAGGGG
TGGGGAAGGCCTATGAGAAGACGACCGAGAGCTCGGAGGAGTCAGAGGTATGGCCAAGAAGTGCTCTGTCTCTGA
AAGAGAAGCTGGATTCCCTTCTCAAGACCTTGGACGATGAGTCCAGGCCTCGTCTCTCTGCCCAACCCGCCCC
CCACCATTGCCGAGGAGGCTGAAGATGGAGATGGGTGCGGCAGCATCTGCGGTTCCACCGGAGACCGCTTGGTGG
CATCAGCTTGCCCGGCCCGGCCGAGATATTCCGGCCTCGAGAACAGCTCATGCTGAGAGCCAACAGCCTGAAGA
AAGCAATTTCGTAGATCATAGAACACACAGAAAAAGCTGTGATGAGCAGAATGCCAGACCCAGGAGCAGGAGG
GCTTCGTCTGGGCTCTCTGAGTCAGAGGAGAAGATGGACCACAGAGTGTGCCACCACTGTCCACAGCGAGA
GCTTCGGGGTCCCCAAGGGGAGGAGCCAGCGCAAAGTGTGCAATCTCCGTGTGAAAAGCTGATCAGCAAAGGGA
GTCTGTCCCTAGGCAGTTCTGCTTCCCTTCCGCCCCAGCCGGGAAGCCGGGACGGCCTGCCTGCGCTCAACACCA
AGATCCTGTACCCAAATGTCCGGGCTGGAATGTCTGGTTCTTACCCGGTGGCTCAGTCATCAGTCGCCTGTTAA
TTAATGCTGATCCCTTCAACTCTGAACCAGAAACCTAGAGTATTACACGGAGAAATGTGTGATGAACAATATT
TTGGCATTGGCCTGGATGCGAAGATATCCCTGGACTTTAACAACAAGCGGATGAGCACCCAGAGAAGTGCAGGA
GCCGAACCAAGAACATGATGTGGTATGGAGTTCTTGGAACCAAGAGTTGCTGCACAGAACCTACAAGAACCTGG
AGCAAAAGGTCTTGTGAGTGTGACGGCGACCCATCCCACTCCCACTCCTTCAGGGAATTGCTGTCTTAAACA
TTCCAGCTATGCCGGAGGAACCAACTTCTGGGGGGGTACCAAGGAAGATGATACTTTCGAGCTCCATCATTCCG
ATGACAAGATTCTGGAGGTGGTCGCCGTGTTCCGACGATGCAGATGGCCGTCTCTCGAGTCATCAGGCTACAGC
ATCATCGGATCGCCCAAGTGTGCGACGGTGAAGATCTCCATCCTTGGGGATGAGGGCGTGCCTGTGCAGGTGGACG
GAGAGGCCTGGGTCCAGCCGCCAGGGTACATTCCGATTGTCCACAAGAACCAGGACAGACACTGACCAGAGACA
GGGCATTTGAGAGCACCTGAAGTCTTGGGAAGACAAGCAGAAGTGCAGGTGCCCCGCCCTCCATCCTGTTCCC
TGCACCCGGAGATGCTGTCTCGAGGAGGAGGCCACCCAGATGGACCAGTTTGGGCAGGCAGAGGGGTCTCATTC
ACAGTATCCGAGAAATAGCTCAGTCTACCCGGGACATGGAGCAGGAAGTGGCCACGCCGTCAATGCCAGCTCCA
AGTCCATGGACCGTGTGTATGGCAAGCCCAGAACACAGAGGGGCTCAACTGCAGCTTCGTCTCTGGAAATGGTGA
ATAACTTCAGAGCTCTGCGCAGTGAGACGGAGCTGCTGTCTGGGAAGATGGCCCTGCAGCTGGATCCGCCCTCAGA
AGGAGCAGCTGGGGAGTGTCTTGGCGAGATGGACCGACAGCTCAGGAGGCTGGCAGACACCCCGTGGCTCTGCC
AGTCCGCGAGACCCGGCGACGAAGAGAGTGTGATGCTGGATCTTGCCAAGCGCAGTCGAGTGGTAAATTCGCC
TCGTGACCAAGTTTTAAAAAGGAGAAAAACAACAAGAACAAAGAAGCTCACAGTAGCCTGGGAGCCCCGGTTACCC
TCTGGGGGACAGAGGAGGTTGCTGCCTGGCTGGAGCACCTCAGTCTCTGTGAGTATAAGGACATCTTACACGGC
ACGACATCCGGGGCTCTGAGCTCCTGCACCTGGAGCGGAGGGACCTCAAGGACCTGGGCGTGACCAAGGTGGGCC
ACATGAAGAGGATCCTGTGTGGCATCAAGGAGCTGAGCCGACGCGCCCCCGCGTCGAGGCC**TAG**CCTCTGTCTCT

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FIGURE 1251B

CTCAGCCTGTGGCCTCCACATCCCCGCCGCCGAGGCCTAGCCTCCGCCCTCTCAGCCTGTGGCCTCTGCGCCTCC
TGCCACTGAGGCCCTGGGCAGATGCTGCAGCCCCGCCCTTCTCATGGTGCTACTTCTCTGTGCTACAGAAA
GCCTCCGTGACACCGTCCACCAGAGCTCTGGGGTCTCGAACATAACAACACAGCTACCTTTGAAACAACACTTTC
TCCAGCTCAGAGTCACCTGGGGCACATGTGTACAGGCCACTCAGCTCTCGCCCGCCTGTGCTGTGGGCCAGGGAA
TCCAGCGGCGTCTGGCCTCCTGGGCAGTGTGCTGGCCTCGTGCTTGGATTGTCCCGGGGGCTCCTCTCCGTG
TGTCTTCTGTGGCCGCACCGTGTGGCTCCGCTCCTGGCCCCCAGCCAGTTCTCAGAAACGTGGCTGGGGCCCAG
CACAGCAGCCTGCAAGGGCCCCCTGTTTGTGATGCAGCTTTTGTGTAACAAAAATCGTGCTCTTTCTGGTTTGA
AAGTAGCATGGATGTTTCCAGTCTTGTGATTGTAATTTGACGTGAAGAGAAAAAACATTCTCTGCGTGAGC
CAAGGCAGCGGGTGTGTTTCCAGGCGGGAGCCCTCCCTGGGTGTACAGGTCCTGTGCTCCTCCCTCCTCCAT
CCTCTCTCTCCCGCTCCTCCCTCCCCCACTGTGGGCTGGGGACGCCTGCCTTCTGTCTCCGGACGCTCTAGGC
GAGTTCAGCTTGGGGTGTGAGTGAGACAGCTTGCCAGCTGCATCCCTGCAGACAGAGGATGTGTGTCCACATGAG
TGTTTCTGTGTGGGAAATGCTTCTGGCTCTGGGAAACTTTTTCTGCCCATTTCTGTGGTTCCAGGGAGCGTGGC
CCTGGTGCAGGGGTGGTTTGACCTCTTCAGCCCGTCCGGTGGCCTGGACGGAGGCTCTCTGAGTGTCTGCCCTG
CGATGGCTTCTGTGCGCTGCTGCTGGGGCTGATGTCGCTGGAGGTGCTGGCAGGGACTCTGATTTGGTGGTCCG
CGCTGCCCCCTGCCCTGCCTCTGTCTGGCTCTGAACTAGTAGATGATGGTGCCAGAGGGCAGGGAGCTCGCCTGG
GGAGAGGGCTGTGCCCCGTAGGGACAGTGCCAGGTGAAGGATGCCCTGGTCTCCAGGGCACTGACTTTGCCC
TTTTTTCCCGTTGATAGTCATGGCTCAGAGGTGCTTGTAATGTCTTGGAAGAGGTTTCTGTAAACCCTGCCCT
GGTGTGAGGAGGAAATGGCTCTGGCCTGGCTGCCTGGCGTGGCTTCTCTTTGGCTCCCAAAGAGAAGGACAGTGT
TGGGAGTATCTGCCGTGGCTTCTCTTTGGCTCCCAAAGAGAAGGACAGTGTGGGAGTATCTGCCGGCGCTGTCC
AGGTCTTTAGTCAGCGTCACTCCATCTGATGTGCAGAACTGGGCTGCACCTGCGGGGGTGGGCATAGACGGG
CTGGGTCTGCAGCAGCCCTGGTCTGAGCAGGCGGCAGTGAACAGCACTGGCCACCTCCCACTCACAGCCCT
CTGTCCCCCTCTGCAGTGCACCCAGGTGGCCCCCTCTGCGTGCTTTGGGTGCTCCCTCTCGTGGTCTGTTCTGGCC
CGAGGCCCTTAGAGTATGGAGGCTGAGCCAGGCCTTGGGTTTCCCCAGCACAGCCTCCTGTGCTGCATGCACGT
GTTGGGATTTTTGGATGAAGACTCTCCACGCTCTGTTGGTGGACTTAGCTGCCTCACTGGAGATTGTGGGTGGA
AGGTGGTTGTATGTTACCTTTACCACCTCTCATTGTTTTTCCCCAGAACATTGTAGATGGGGGTGGCAGAGGGAG
AAATATGCCAGCCACGGCAGTCGCTTGGTTTCCAGGTGGAATGGGCTAACACAGGAGATGATGGGAACCTGTCC
CGCAGTCCCTGCATGACCATTGGCCCTGCTGGCCTGGCGATGTGGGCATCCTGGGGTTCTTAGGGTCCCAGAACA
AGCCCCAGGCAAGCTGGAACCTGGGTGGGGAGGGGACATGAGGAGGATAAACAGCTGACTGTGGCTTCAAGGACA
TCAGGGCCACCCCAAGTCCTCAGTGTCTACTCCTGGCAAGATTGGGTTTGGATCAAAAGTGTAAATTAATA
TGTTGTCAGTGATTAGAACAACACTGTTTACATAAAAACCATTTTTCTAATTCTAACAAAGTTAGAATGTGAGGAA
GGAATGAACATGAGTGTTTAGGAACCTGCCCTTTGGTGTGGGCTGGCGTCCCGCACTGGGGTGTCTCGCTGTC
TGGGGGCTGCTCTGCTTCCCCGGCCAGGTCCCCTTGTGGTGTGTCAGACGGGCCTCATGGTCTGCTGTGCAGA
GAGAGGCAGGAAGGATCCCTGAAGAGTCTTGGAGAAAAGGTTCTGTGCCCTCAGGTGGGGCTTACCCCTCGTAT
TTATAATCTTAATTTATATAGTGACCACCGTGGAAACAAACGCCTCTTGTATTGTATGTACATAGTCCATACCT
GAGTGTGTACATAAGTTGTTCTGTGTATAAATAAAACAAGCCTGTTTTTGATCTTC

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FIGURE 1252

MNMFYFQTIIEGMLTKQNNFQRSKRRYFKLRGRTLYYAKTAKSII FDEVDLTDASVAESSTKNVNNSTVIT
PCRKLILCADNRKEMEDWIAALKTVQNRHFEPYQYSMDHFGSMHNWYACSHARPTYCNVCREALSGVTSHGLSC
EVCKFKAHKRCAVRATNNCKWTTLASIGKDIIEDADGIAMPHQWLEGNLPVSAKCTVCDKTCGSVLRQLQDWRCW
CKAMVHTSCKESLLTKCPLGLCKVSVIPPTALNSIDSDGFWKASCPPSCTSPLLVFVNSKSGDNQGVKFLRRFKQ
LLNPAQVFDLMNGGPHLGLRFLQKFDTFRILVCGGDGSGVWVLSEIDSLNLHKQCQLGVLPPLGTGNDLARVLGWG
SACDDDTQLPQILEKLERASTKMLDRWSVMAYEAKLPRQASSSTVTEDFSEDSEVQQILFYEDSVAHLSKILTS
DQHSVVISSAKVLCETPKDFVARVGKAYEKTTESESESEVMAKKCSVLKEKLDLKLTLDDSQASSSLPNPPPT
IAEEAEDGDGSGSICGSTGDRLVASACPARPQIFRPREQLMLRANSLKKAIRQII EHTEKAVDEQNAQTQE QEGF
VLGLSESEEEKMDHRVCPPLSHSESFGVPGKRSQRKVS KSPCEKLISKGSLSLGSSASLPPQPGSRDGLPALNTKI
LYPNVRAGMSGSLPGGSVISRLLINADPFNSEPETLEYYTEKVMNNYFGIGLDAKISLDFNNKRDEHPEKCRSR
TKNMMWYGVLTGKELLHRTYKNLEQKVLLCEDGDP SHSPVLQGIAVLNIPSYAGGTNFWGGTKEDDTFAAPSFDD
KILEVVAVFGSMQMAVSRVIRLQHHRIAQCRTVKISILGDEGVPVQVDGEAWVQPPGYIRIVHKNRAQTLTRDRA
FESTLKSWEKQKCEVPRPPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSKS
MDRVYGKPRTEGLNCSFVLEMVNNFRALRSETELLSGKMALQLDPPQKEQLGSALAEMDRQLRRLADTPWLCQS
AEPGDEESVMLDLAKRSRSGKFRLVTKFKEKNKNKEAHSSLGAPVHLWGTEEVAAWLEHLSLCEYKDIFTRHD
IRGSELLHLERRDLKDLGVTKVGHMKRILCGIKELSRSAPEVA

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FIGURE 1253

CGTGCACCCTGAGCCGGAGCTGCCCAGTCGCCGCGGGACCGGGGCCGCTGGGGTCTGGACGGGGGTCGCCATGAT
CCGCTTTATCCTCATCCAGAACCGGGCAGGCAAGACGCGCCTGGCCAAGTGGTACATGCAGTTTGATGATGATGA
GAAACAGAAGCTGATCGAGGAGGTGCATGCCGTGGTCACCGTCCGAGACGCCAAACACACCAACTTTGTGGAGGT
CTTAAACGAATATTTCCACAATGTCTGTGAACTGGACCTGGTGTTCAACTTCTACAAGGTTTACACGGTCGTGGA
CGAGATGTTCTGGCTGGCGAAATCCGAGAGACCAGCCAGACGAAGGTGCTGAAACAGCTGCTGATGCTACAGTC
CCTGGAGTGAGGGCAGGCGAGCACCCACCCCGGCCCCGCCCCCTCCTGGAATCGCCTGCTCGCTTCCCCTTCCC
AGGCCCCGTGGCCAACCCAGCAGTCCTTCCCTCAACTGCCTAGGAGGAAGGGACCCAGCTGGGTCTGGGCCACAAG
GGAGGAGACTTCACCCCACTTCCTCTGGGCCCTGGCTGTGGGCAGAGGCCACCGTGTGTGTCCCGAGTAACCGTG
CCGTTGTCGTGTGATTCCATAAGCGTCTGTGCGTGGAGTCCCCAATAAACCTGTGGTCCTGCCTGGC

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FIGURE 1254

MIRFILIQN RAGKTRLAKWYMQFDDDEKQKLIEEVHAVVTVRDAKHTNFVEVLNEYFHNVCELDLVFNFYKVYTV
VDEMFLAGEIRETSQTKVLKQLLMLQSLE

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FIGURE 1255

AGCAGAGGGGCTGAGACCAAACCAGAAACCTCCAATTCTCATGTGGAAGCCCATGCCCTCACCTCCAACATGAA
AGCCTCTGCAGCACTTCTGTGTCTGCTGCTCACAGCAGCTGCTTTCAGCCCCAGGGGCTTGCTCAGCCAGTTGG
GATTAATACTTCAACTACCTGCTGCTACAGATTTATCAATAAGAAAATCCCTAAGCAGAGGCTGGAGAGCTACAG
AAGGACCACCAGTAGCCACTGTCCCCGGAAGCTGTAATCTTCAAGACCAAACCTGGACAAGGAGATCTGTGCTGA
CCCCACACAGAAGTGGGTCCAGGACTTTATGAAGCACCTGGACAAGAAAACCCAAACTCCAAAGCTTTTGAACATT
CATGACTGAACTAAAAACAAGCCATGACTTGAGAAACAAATAATTTGTATACCCTGTCCTTTCTCAGAGTGTTTC
TGAGATTATTTTAATCTAATTCTAAGGAATATGAGCTTTATGTAATAATGTGAATCATGGTTTTCTTAGTAGAT
TTTAAAAGTTATTAATATTTTAATTTAATCTTCCATGGATTTTGGTGGGTTTTGAACATAAAGCCTTGGAATGTAT
ATGTCATCTCAGTGCTGTAAAACTGTGGGATGCTCCTCCCTTCTCTACCTCATGGGGTATTGTATAAGTCCTT
GCAAGAATCAGTGCAAAGATTTGCTTTAATTGTTAAGATATGATGTCCCTATGGAAGCATATTGTTATTATATAA
TTACATATTTGCATATGTATGACTCCCAAATTTTCACATAAAATAGATTTTGTAAAAA

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FIGURE 1256

MKASAALLCLLLTAAAFSPQGLAQPVGINTSTTCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEIC
ADPTQKWVQDFMKHLDKKTQTPKL

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FIGURE 1257

GGGGGAGCC**ATG**AGGCGCCAGCCTGCGAAGGTGGCGGCGCTGCTGCTCGGGCTGCTCTTGGAGTGCACAGAAGCC
AAAAAGCATTGCTGGTATTTTGAAGGACTCTATCCAACCTATTATATATGCCGCTCCTACGAGGACTGCTGTGGC
TCCAGGTGCTGTGTGCGGGCCCTCTCCATACAGAGGCTGTGGTACTTCTGGTTTCCTTCTGATGATGGGCGTGCTT
TTCTGCTGCGGAGCCGGCTTCTTCATCCGGAGGCGCATGTACCCCCCGCCGCTGATCGAGGAGCCAGCCTTCAAT
GTGTCCTACACCAGGCAGCCCCCAAATCCCGGCCAGGAGCCAGCAGCCGGGGCCGCCCTATTACACTGACCCA
GGAGGACCGGGGATGAACCTGTGCGGAATTCCACGGCAATGGCTTTCCAGGTCCCACCCAACCTACCCCAGGGG
AGTGTGGCCTGCCCCCCCCCTCCAGCCTACTGCAACACGCCTCCGCCCCCGTACGAACAGGTAGTGAAGGCCAAG
TAGTGGGGTGCCACGTGCAAGAGGAGAGACAGGAGAGGGCCTTTCCCTGGCCTTTCTGTCTTCGTTGATGTTCA
CTTCCAGGAACGGTCTCGTGGGCTGCTAAGGGCAGTTCCTCTGATATCCTCACAGCAAGCACAGCTCTCTTTCAG
GCTTTCCATGGAGTACAATATATGAACTCACACTTTGTCTCCTCTGTTGCTTCTGTTTCTGACGCAGTCTGTGCT
CTCACATGGTAGTGTGGTGACAGTCCCCGAGGGCTGACGTCCTTACGGTGGCGTGACCAGATCTACAGGAGAGAG
ACTGAGAGGAAGAAGGCAGTGTGAGGTGCAGGTGGCATGTAGAGGGGCCAGGCCGAGCATCCAGGCAAGCAT
CCTTCTGCCCCGGGTATTAATAGGAAGCCCCATGCCGGGCGGCTCAGCCGATGAAGCAGCAGCCGACTGAGCTGAG
CCCAGCAGGTCACTGTCTCCAGCCTGTCTCTCGTCAGCCTTCTCTTCCAGAAGCTGTTGGAGAGACATTTCAGG
AGAGAGCAAGCCCCCTTGTATGTTTCTGTCTCTGTTCATATCCTAAAGATAGACTTCTCCTGCACCGCCAGGGAA
GGATAGCACGTGCAGCTCTCACCGCAGGATGGGGCCTAGAATCAGGCTTGCTTGGAGGCCTGACAGTGATCTGA
CATCCACTAAGCAAATTTATTTAAATTCATGGGAAATCACTTCTGCCCAAACCTGAGACATTGCATTTTGTGAG
CTCTTGGTCTGATTTGGAGAAAGGACTGTTACCCATTTTTTTTGGTGTGTTTATGGAAGTGCATGTAGAGCGTCCT
GCCCTTTGAAATCAGACTGGGTGTGTGCTTCCCTGGACATCACTGCCTCTCCAGGGCATTCTCAGGCCCGGGGG
TCTCCTTCCCTCAGGCAGCTCCAGTGGTGGGTCTGAAGGGTGCTTTCAAACGGGGCACATCTGGCCGGGAAGT
CACATGGACTCTTCCAGGGAGAGAGACCAGCTGAGGCGTCTCTCTCTGAGGTTGTGTTGGGTCTAAGCGGGTGTG
TGCTGGGCTCCAAGGAGGAGGAGCTTGCTGGGAAAAGACAGGAGAAGTACTGACTCAACTGCACTGACCATGTTG
TCATAATTAGAATAAAGAAGAAGTGGTCGGAAATGCACATTCTGGATAGGAATCACAGCTCACCCCAGGATCTC
ACAGGTAGTCTCCTGAGTAGTTGACGGCTAGCGGGGAGCTAGTTCCGCCGCATAGTTATAGTGTTGATGTGTGAA
CGCTGACCTGTCTGTGTGCTAAGAGCTATGCAGCTTAGCTGAGGCGCCTAGATTACTAGATGTGCTGTATCACG
GGGAATGAGGTGGGGGTGCTTATTTTTTAATGAACTAATCAGAGCCTCTTGAGAAATTGTTACTCATTGAACTGG
AGCATCAAGACATCTCATGGAAGTGGATACGGAGTGATTGGTGTCCATGCTTTTCACTCTGAGGACATTTAATC
GGAGAACCTCCTGGGGAATTTTGTGGGAGACACTTGGGAACAAAACAGACACCCTGGGAATGCAGTTGCAAGCAC
AGATGCTGCCACCAGTGTCTCTGACCACCCTGGTGTGACTGCTGACTGCCAGCGTGGTACCTCCCATGCTGCAGG
CCTCCATCTAAATGAGACAACAAAGCACAAATGTTCACTGTTTACAACCAAGACAACCTGCGTGGGTCCAAACACTC
CTCTTCTCCAGGTCAATTTGTTTTGCATTTTTAATGTCTTTATTTTTTGTAATGAAAAAGCACACTAAGCTGCC
CTGGAATCGGGTGCAGCTGAATAGGCACCCAAAAGTCCGTGACTAAATTCCGTTTGTCTTTTTGATAGCAAATTA
TGTTAAGAGACAGTGATGGCTAGGGCTCAACAATTTGTATTCCCATGTTTGTGTGAGACAGAGTTTGTTTTCCC
TTGAACTTGGTTAGAATTGTGCTACTGTGAACGCTGATCCTGCATATGGAAGTCCCACTTTGGTGACATTTCCCTG
GCCATTCTTGTTCATTGTGTGGATGGTGGGTGTGCCCACTTCTGGAGTGAGACAGCTCCTGGTGTGTAGAA
TTCCCGGAGCGTCCGTGGTTCAGAGTAACTTGAAGCAGATCTGTGCATGCTTTTCTCTGCAGCAATTGGCTCG
TTTCTCTTTTTTGTCTCTTTTGATAGGATCCTGTTTCCATGTGTGCAAAATAAAATAAATTTGGGCAAAAAA
AAAAAAAAAAAAAA

1412/2825
FIGURE 1258

MRRQPAKVAALLLGLLLECTEAKKHCWYFEGLYPTYYICRSYEDCCGSRCCVRALSIQRLWYFWFLMMGVLFCC
GAGFFIRRRMYPPPLIEEPAFNVS YTRQPPNPGPGAQQPGPPYYTDPGGPGMNPVG NSTAMAFQVPPNSFQGSVA
CPPPPAYCNTPPPPYEQVVKAK

1413/2825
FIGURE 1259

CCAAC TTATTTAAACAAAACAATTTTGTAGGTATTATTATACCCATTTACAGATGATGATAAAATGAGACCAAT
AGAAGTTAAATAACTTGCCAAAGGCCACACAGCTGGTGAGTGATGGAGAACGAATTA AAAACTCAAGTGAGCATAA
TTCTAAAAGCCATCTTCTCGTTAGTGTTTCTCACTATCCAGGTCTGCCTTTGCCTTATTTAACTGAAGTTAAGCC
ATCCTTACCTGTGATCACCTAGCCTCTCAGTTTGGGGGGATCATTACAGCGGGTTTTTA ACTCCCAATGTTCTGG
TCCAGTTTGCTTTACATGTTCTTATTTATACATTGTCAAGGATGACCTCAGGACAGTACAGCAAGGACACAGTGG
CACTTCACATTTTGTTCCACGAAATGACTGGGGCATAATCTCAGATCATCTTCCTTTAGAAATGTGGAACATCA
GCAGAAGAATATTAGTCTTTATACAAGTCAAATCCAAAATGACACATGTGAAAAC TAATAGAGCTGACTTTCAGC
CATGATAGCTTTGGCACACCTCACATCCCTTTGTTCAACCTCTCTTCCCTCAACGGAGAGCTGCATTCTCGGAA
TTTCTGTTGTGCATTTTCCCACTTGCCCTGCTGTCAATTTAAAGGTGAACATTCTAGTTTTGCTAAGAAAACCTT
TTCCTTCATTTGGAATGAACAGCAATTTTATTACTTTTGACCTTAAATGAGTTTGCTGCCTTCAAATCTTTTCA
GCGCCTTCATCACGCTCTGCTTCGGGGCGATCTTCTCCTGCCAGACTCCTCCAAGCTGCTCAGCGGGTCTGT
TCCACTCCAGCCCCGCTTG CAGCCGGCCGCGACCACAAGCCCGGGCCCGGGGCGCGCGCCGAGGACGCGGCCG
AGGGGCGAGCCCGCGCGCAGGAGGGGGCACCCGGGACCCGGAGGCCGCCCTGGAGGACA ACTTGGCCAGGA
TCCGCGAAAACCACGAGCGGGCTCTCAGGGAAGCCAAGGAGACCCTGCAGAAGCTGCCCGAGGAGATCCAAAGAG
ACATCCTACTGGAGAAGAAGAAGGTGGCCAGGACCAGCTGCGTGACAAGGCGCCGTT CAGAGGCCTGCCCCCG
TGGACTTCGTGCCCCAATCGGGGTGGAGAGCCGGGAGCCCCGCCGACGCCGCCATCCGCGAGAAAAGGGCAAAGA
TCAAAGAGATGATGAAACATGCTTGGAATAATTATAAAGGTTATGCCTGGGGATTAAATGAACTCAAACCTATAT
CAAAGGAGGCCATTCAAGCAGTTTGTTTGGTAACATCAAAGGAGCAACTATAGTAGATGCCCTGGATACACTTT
TTATTATGGAATGAAACATGAATTTGAAGAAGCAAAATCATGGGTTGAAGAAAATTTAGATTTTAATGTGAATG
CTGAAATTTCTGTCTTTGAAGTAAATATACGCTTTGTTGGTGGACTACTCTCAGCCTACTATCTGTCTGGAGAAG
AGATTTTTCGAAAGAAAGCAGTGGAAC TTGGGGTAAAATTGCTACCTGCATTTCATACTCCCTCTGGAATACCTT
GGGCATTGCTGAATATGAAAAGTGGTATTGGAAGGAACTGGCCCTGGGCCTCTGGAGGCAGCAGTATTCTGGCAG
AATTTGGAACCTGCAATTTGGAGTTTATGCACTTGAGCCACTTATCAGGAAACCCCATCTTTGCTGAAAAGGTAA
TGAATATTGGAACAGTACTGAACAACTGGAAAAACCACAAGGCCTTTATCCTAACTATCTGAATCCCAGTAGTG
GACAGTGGGGTCAACATCATGTATCAGTTGGAGGACTTGGAGACAGCTTCTATGAGTATTTGCTGAAGGCCTGGT
TAATGTCTGACAAGACAGATCTGGAAGCTAAGAAGATGTATTTTGATGCTGTT CAGGCTATCGAGACTCATTGGA
TCCGCAAGTCTAGCAGCGGACTA ACTTATATCGCAGAGTGGAAGGGGCCCTCCTGGAGCACAAGATGGGCCACC
TGACCTGCTTCGCGGGGGGCATGTT CGCACTCGGGGCTGATGCAGCTCCCGAAGGCATGGCCCAACTACCTTG
AACTCGGGGCTGAAATTGCCCGTACTTGTCATGAATCATATAATCGAACATTTATGAACTGGGACCAGAAAGCTT
TCAGATTTGATGGTGGTGTGTAAGCCATCGCTACAAGACAAAATGAAAAATACTACATCTTACGGCCAGAAAGTTA
TGGAGACTTACATGTATATGTGGAGACTGACTCATGATCCAAAGTACAGGAAATGGGCCTGGGAAGCCGTAGAGG
CCTTGGA AAAACCATG CAGAGTGAATGGAGGCTATT CAGGCCTAAGGGATGTTTACCTTCTTCATGAGAGTTATG
ATGATGTGCAGCAGAGTTTCTTCTGGCAGAGACATTGAAATATTTGTACCTAATATTTTCTGACGACGATCTTC
TTCCACTGGAGCATTGGATCTTCAATAGCGAGGCACATCTTCTCCCTATCCTCCCTAAAGATAAAAAGGAAGTTG
AAATCAGAGAGGAATTA AAAAAAGACATTTATATTTTATTCTGCTCCATTCCCTTCACTGTATACCTTAATAATTCC
TTTTCTGGTAATCAGGCACATGATGAACTTTGATTAGTAGGTCTGTGATTAAAGTTCTTAAATTGTTTTGCAGTCT
TTTATGTTTATTATCATAGGTATAGGTGGACCTAAATTCCCTTATCATATCTTTATTAATTCAGCCAGTGTATCCA
CCAGTTTTTTGTTTATGTTTTTAAGTAACCTATTATCTCTGGATTT CATGAAGGTGTAATATCGTTTTTTGTAA
CTGAATAGAATTGTATAGCGATGACCTCTTAATTATAATTTGATTTGACTGCAAACTTTTTCTCCTCTAAGAG
GAGATGATGTCTGCTTTAAGCTGTAATGTTTTGCCATGTTGCAAAAAGCCATAATAATAAGTATAAAAAAGCTTT
TTCCTTTACAATTT CATGTTAATCTGTTTTGTCTGTCCACCAGAGACAGATCTTCTGTGACAGCCTCCTTATGCA
GGTCTATCATTATTTGATAGAATGTCTTCTAAAATACTTCACTCACATTGTAATTCAAATTAGAAAGTCATTCCA
AAAGGTCATGT CATGTTGACCTCATTCATCGGAACTGCAGTATATTTTTGTTGGTTAATTATATTAGTGTTTTT
TATTTTGAAAAA AAAAAAAAAA

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FIGURE 1260

MNSNFITFDLKMSLLPSNLFSAFITLCFGAIFFLPDSSKLLSGVLFHSSPALQPAADHKPGPGARAEDAAEGRAR
RREGAPGDPEAALEDNLARIRENHERALREAKETLQKLPEEIQRDILLEKKKVAQDQLRDKAPFRGLPPVDFVP
PIGVESREPADAAREKRAKIKEMMKHAWNNYKGYAWGLNELKPI SKGGHSSSLFGNIKGATIVDALDTLFIMEM
KHEFEEAKSWVEENLDFNVNAEISVFEVNIRFVGGLLSAYYLSGEEIFRKKAVELGVKLLPAFHTPSGIPWALLN
MKSGIGRNWPWASGGSSILAEFGTLHLEFMHLSHLSGNPIFAEKVMNIRTVLNKLEKPQGLYPNYLNPSSGQWGQ
HHVSVGGLGDSFYEYLLKAWLMSDKTDLEAKKMYFDAVQAIETHLIRKSSSGLTYIAEWKRGLLEHKMGHLTCFA
GGMFALGADAAPEGMAQHYLELGAEIARTCHESYNRTFMKLGPEAFRFDGGVEAIATRQNEKYYILRPEVMETYM
YMWRLTHDPKYRKWAVEAVEALENHCRVNGGYSGLRDVYLLHESYDDVQQSFFLAETLKYLYLIFSDDDLLPLEH
WIFNSEAHLPLPKDKKEVEIREE

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FIGURE 1261A

GGGCGCAGAGGAGGAAAGGGAGCAGGCGCAGGGGGACTGGAAAGGCAGCATGCGCTCGCCAGGAGCAACCTCGGC
GCCCAGGGTCTGAGGCTGCAGCCCCAGTTCGCCATTGTGAGCCGCCGCCGGGGGAGTCCGCTAGCGCAGCCGTGC
CCCCGAGTCCCCGTCCGCGCAGCGATGGGGGCACCTGCCCCACGGGGATACACGGCGCCCCGCCCTCCTGCCTCTG
CTCTGGCTCTTTGTGCTGTTCAAGAATGCTACAGCTTTCCATGTAAGTGTCCAAGATGATAATAACATCGTTGTC
TCATTAGAAGCTTCAGACGTCATCAGTCCAGCATCTGTGTATGTTGTGAAGATAACTGGTGAATCCAAAAATTAT
TTCTTCGAATTTGAGGAATTCAACAGCACTTTGCCTCCTCCTGTTATTTTTCAAGGCCAGTTATCATGGCCTTTAT
TATATAATCACTCTGGTAGTGGTAAATGGAAATGTGGTGACCAAGCCATCCAGATCAATCACTGTGTTAACAAAA
CCTCTACCTGTAACCACTGTTTCCATATATGACTATAAACCTTCTCCTGAAACAGGAGTCTGTTTGAAATACAT
TATCCAGAAAAATATAACGTTTTCAAGAGTGAACATTAGCTACTGGGAAGGTAAAGACTTCCGGACAATGCTA
TATAAGATTTCTTTAAGGGAAAAACAGTATTTAATCACTGGCTGCCAGGAATGTGTTATAGTAATATCACCTTT
CAGCTGGTATCTGAGGCAACTTTTAATAAAAGTACCCTTGTGAGTACAGTGGTGTGAGTCACGAACCCAAACAG
CACAGAACTGCCCCCTTATCCACCTCAAAATATTTCCGTTTCGTATCGTAAACTTGAACAAAAACAACCTGGGAAGAA
CAGAGTGGCAATTTCCCAGAAGAATCCTTCATGAGATCACAAGATACAATAGGAAAAAGAAAACTCTTCCATTTT
ACAGAAGAAACCCCTGAAATTCCCTCGGGCAACATTTCTTCCGGTTGGCCTGATTTTAATAGCAGTGACTATGAA
ACTACGTCTCAGCCATATTGGTGGGACAGTGCATCTGCAGCTCCTGAAAGTGAAGATGAATTTGTCAGCGTACTT
CCCATGGAATACGAAAATAACAGTACACTCAGTGAGACAGAGAAGTCAACATCAGGCTCTTTCTCCTTTTTCCCT
GTGCAAATGATATTGACCTGGTTACCAACCAAAACCACCCACTGCTTTTGATGGGTTCATATCCATATTGAACGA
GAAGAGAACTTTACTGAATATTTGATGGTGGATGAAGAAGCACATGAATTTGTTGCAGAACTGAAGGAACCTGGG
AAATATAAGTTATCTGTGACAACCTTTAGTTCCTCAGGATCTTGTGAAACTCGAAAAAGTCAGTCAGCAAAATCA
CTCAGCTTTTATATCAGTCCTTCAGGAGAGTGGATTGAAGAAGTACCAGAGAAGCCGCAGCACGTGAGTGTCCAC
GTTTTAAGCTCAACCACTGCCTTGATGTCTGGACATCTTCCCAAGAGAAGTACAACAGCACCATTGTGTCTGTG
GTGTCGCTGACCTGCCAGAAACAAAAGGAGAGCCAGAGGCTTGAAGAAGCAGTACTGCACTCAGGTGAACCTCAAGC
AAACCTATTATTGAAAATCTGGTTCCCTGGTGCCAGTACCAGGTTGTAATATACCTAAGGAAAGGCCCTTTGATT
GGACCACCTTCAGATCCTGTGACATTTGCTATTGTTCCACAGGAATAAAGGATTTAATGCTCTATCCTTTGGGT
CCTACGGCCGTGGTTCTGAGCTGGACCAGACCTTATTAGGCGTGTTTCAGAAAATACGTGGTTGAAATGTTTTAT
TTCAACCCCTGCTACAATGACATCAGAGTGGACCACCTACTATGAAATAGCAGCAACTGTTTCCTTAAGTGCATCC
GTGAGAATAGCTAATCTGCTGCCAGCATGGTACTACAACCTCCGGGTTACCATGGTGAGCTGGGGAGATCCAGAA
TTGAGCTGCTGTGACAGCTCTACCATCAGCTTCATAACAGCCCCAGTGGCTCCGGAAATCACTTCTGTGGAATAT
TTCAACAGTCTGTTATATATCAGTTGGACATATGGGGATGATAACAACGGAAGTGTCCCATTTCTAGAATGCTTCAC
TGGATGGTGGTTGCAGAAGGAAAAAAGAAAATTAAGAGAGTGTAAACACGCAATGTCATGACTGCAATTTCTCAGC
TTGCCTCCAGGCGACATCTATAACCTCTCAGTAACTGCTTGTACTGAAAGAGGAAGTAATACCTCCATGCTCCGC
CTTGTCAGCTAGAACCAGCTCCACCCAAATCACTCTTCGCAGTGAACAAAACCCAGACTTCAGTGACTTTGCTG
TGGGTGGAAGAGGGAGTAGCTGATTTCTTTGAAGTTTTCTGTCAACAAGTTGGCTCCAGTCAGAAAACCAACTT
CAGGAACCAGTTGCTGTTTCTTCCCATGTCGTGACCATCTCCAGCCTTCTTCTGCCACTGCCTACAATTGTAGT
GTCACCAGCTTTAGCCATGACAGCCCCAGTGTCCCTACGTTTCATAGCCGTCTCAACAATGGTTACAGAGATGAAT
CCCAATGTGGTAGTGATCTCCGTGCTGGCCATCCTTAGCACACTTTTAATTGGACTGTTGCTTGTTACCCCTCATT
ATTCTTAGGAAAAAGCATCTGCAGATGGCTAGGGAGTGTGGAGCTGGTACATTTGTCAATTTTGCATCCTTAGAG
AGGGATGGAAAGCTTCCATACAACCTGGCGTAGGAGTATATTTGCTTTCTTAACCCTGCTACCCTCATGTCTTTGG
ACTGATTATCTTTTGGCATTTTATATTAATCCTTGGAGTAAAAATGGTTTAAAGAAGAGGAAACTGACAAAACCCG
GTTCAACTGGATGACTTTGATGCCTATATTAAGGATATGGCCAAAGACTCTGACTATAAAATTTTCTCTTCAGTTT
GAGGAGTTGAAATTGATTGGACTGGATATCCACACTTTGCTGCAGATCTTCCACTGAATCGATGTAAAAACCGT
TACACAAAACATCCTACCATATGACTTCAGCCGTGTGAGATTAGTCTCCATGAATGAAGAGGAAGGTGCAGACTAC
ATCAATGCCAACTATATTCTGGATACAACCTCACCCACAGGAGTATATTGCCACCCAGGGGCCACTGCCTGAAACC
AGAAATGACTTCTGGAAGATGGTCCCTGCAACAAAAGTCTCAGATTATTGTGTCATGCTCACTCAGTGTAATGAGAAA
AGGAGGGTGAAATGTGACCATTACTGGCCATTACCGGAAGAACCTATAGCCTATGGAGACATCACTGTGGAGATG
ATTTTCAGAGGAAGAGCAGGACGACTGGGCCTGTAGACACTTCCGGATCAACTATGCTGACGAGATGCAGGATGTG
ATGCATTTTAACTACACTGCATGGCCTGATCATGGTGTGCCACAGCAAATGCTGCAGAAAGTATCCTGCAGTTT
GTACACATGGTCCGACAGCAAGCTACCAAGAGCAAAGGTCCCATGATCATTCACTGCAGTGTGGCGTGGGACGG

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FIGURE 1261B

ACAGGAACATTCATTGCCCTGGACAGGCTCTTGCAGCACATTCGGGATCATGAGTTTGTTGACATCTTAGGGCTG
GTGTCAGAAATGAGGTCATACCGGATGTCTATGGTACAGACAGAGGAGCAGTACATTTTTATCCATCAGTGTGTG
CAACTGATGTGGATGAAGAAGAAGCAGCAGTTCTGCATCAGTGATGTGCATATACGAGAATGTTAGCAAGTCCTAG

TTCAGAATCCGGAGCAGAGAGGACATGATGTGCGCCCATCCTCCCTTGCTTCCAGATTGTTTTAGTGGGCCCTGA
TGGTCATTTTTCTAAACAGAGGCCCTGCTTTGTAATATGTGGCCAAGGAGATAATTTATCTCACAGAAGCACCGG
GAAGACTTAGCCTTAAAGAGCCTACAGTGTCTTTTGGACTCTTTCACCTTCGGGACATTTAATAATGGACCAAAT
TCAACAGAACACCAGGAAGGTCAAGACGCTCTCCAAAGGGCAGGAAGTACAGCACTTCCGAAGAGTTTAGTTGGC
CCTTTGCTGGTTGGGCTGAGTTTTTTATTTTTAAGTGTGTTTTTCAGTGCAATAATTTTTGTGTGTGTGTGAT
TCTTATCAGAAAGTTGAATTGTTTTCTGCCTACACCGTTCATCAGCCCCATAACCCAGGAAGGAACAGGCATTGT
TAGCATCAGATTATACCTCATTATTTAAAGAGGCATGGCCACACATGAAGAAATGGTCATTCTACTTCAAAGAA
ATTGAGCCAGCACTATCTGTACTCCAACATTACCGGATCTGGATTGGGGAGGTTGGTCAGGGAAGAGAGGGGTTT
TACCCACAGATCAACTGTGTAATCTTTTACTATTCAAGCTATAATTCAGCTTCAAAGTAGAGTAGAAAAAAATT
GTCTTAACTGTTCTAGTTCTTGATGGTTTTCTTCCTTATTAACAGTTGGTGTGTTTTCTTCCTTGGCCCTTTTGGACT
AATGTTACTGTCCAAGTTCTTTCTCAAGAAACCACATCTGGTTCAGAAGAGTGTCAAGTTGGACTCTTTGAAGTC
TGTTGCTGCTGAGCAATCGTGGTGCCTAGACTTTGCATTCCCTTGTTCTGTTGACCTGCATACATGTGAGAGCTA
TTTCTTTAAGAACTATATAGGCTGTGAAAACGCACCTTTCTTTCCCCCAAAGAGCTGGGAATTTATGAAGTTATGG
CAATGAAGTGCAGCATGCTGGGACAATTATTTGACTACTTTTTTTTTGTAATATTGTCAAATGTCTCTATGGATT
TGACAGAGATTTCTTTTTGTTTTGTTATTCTTTTGGTTGTCAGTTTCATTTTAACGAGTGTAAGTAGTAACATTT
TATTCTTTGGATTTTGTATAATTACAGTACATGATTGTGTATTGTGACATGAATGCTGTCAAAATGACATTGATG
GCATTGTGAAGCCTGTTACTTTGTGTCACTTCCTGATAAATAAGAGGTGATGACATGGATATACAACAGAAAACA
CTTTGAGTTGAAAGTAAACACAAGCTGGCTGCTTCCCTGTGGCAACTGTGGCT

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FIGURE 1262

MGHLPTGIHGARRLLPLLWLFVLFKNATAFHVTVQDDNNIVVSLEASDVISPASVYVVKITGESKNYFFEFEEFN
STLPPPVIFKASYHGLYYIITLVVVNGNVVTKPSRSITVLTPLPVTSVSIYDYKPSPETGVLFEIHYPEKYNVF
TRVNISYWEGKDFRTMLYKDFFKGKTVFNHWLPGMCYSNITFQLVSEATFNKSTLVEYSGVSHEPKQHRTAPYPP
QNISVRIVNLNKNWEEQSGNFPEESFMRSQDTIGKEKLFHFTEETPEIPSGNISSGWPDFNSSDYETTSQPYWW
DSASAAPESSEDEFVSVLPMEYENNSTLSETEKSTSGSFSFFPVQMILTWLPPKPPTAFDGFHIIHEREENFTEYL
MVDEEAHEFVAELKEPGKYKLSVTTTFSSSGSCETRKSQSAKSLSFYISPSGEWIEELTEKPQHVSVHVLSSTTAL
MSWTSSQENYNSTIVSVVSLTCQKQKESQRLEKQYCTQVNSSKPIIENLVPGAQYQVVIYLRKGPLIGPPSDPVT
FAIVPTGIKDLMLYPLGPTAVVLSWTRPYLGVFRKYVVMFYFNPATMTSEWTTYEIAATVSLTASVRIANLLP
AWYYNFRVTMTWGDPELSCCDSSTISFITAPVAPEITSVEYFNLLYISWTYGD DTTDLSHSRMLHWMVVAEGK
KKIKKSVTRNVMTAILSLPPGDIYNLSVTACTERGSNTSMLRLVKLEPAPPKSLFAVNKTQTSVTLLWVEEGVAD
FFEVFCCQVQSSQKTKLQEPVAVSSHVVTISSLLPATAYNCSVTSFSDSPSVPTFIADVSTMVTEMNPNVVVISV
LAILSTLLIGLLLVTLLIILRKKHLQMARECGAGTFVNFASLERDGLPYNWRRSIFAFLLTLLPSCLWTDYLLAFY
INPWSKNGLKRRKLTNPVQLDDFDAYIKDMAKDSYKFSLQFEELKLIGLDIPHFAADLPLNRCKNRYTNILPYD
FSRVRLVSMNEEEGADYINANYIPGYNSPQEYIATQGFLPETRNDFWKMLVQQKSQIIIVMLTQCNEKRRVKCDHY
WPFTEEP IAYGDITVEMISEEEQDDWACRHRFRINYADEMQDVMHFNYTAWPDHGVPTANAAESILQFVHMVRQQA
TKSKGPMIIHCSAGVGRGTGTFIALDRLLQHIRDHEFVDILGLVSEMRSYRMSMVQTEEQYIFIHQCVQLMWMKKK
QQFCISDVIYENVSKS

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FIGURE 1263

GGACAACCGGCTGGGGTCCTTGCGCGCCGCGGCTCAGGGAGGAGCACCGACTGCGCCGCACCCTGAGAGATCGTT
GGTGCCATGTGGAAGGTGATTGTTTCGCTGGTCCTGTTGATGCCTGGCCCCCTGTGATGGGCTGTTTCGCTCCCTA
TACAGAAAGTGTTCATGCCACCTAAGGGAGACTCAGGACAGCCATTATTTCTCACCCCTTACATTGAAGCTGGG
AAGATCCAAAAAGGAAGAGAATTGAGTTTGGTCGGCCCTTTCCCAGGACTGAACATGAAGAGTTATGCCGGCTTC
CTCACCGTGAATAAGACTTACAACAGCAACCTCTTCTTCTGGTTCTTCCCAGCTCAGATACAGCCAGAAGATGCC
CCAGTAGTTCTCTGGCTACAGGGTGGGCCGGGAGGTTTCATCCATGTTTGGACTCTTTGTGGAACATGGGCCTTAT
GTTGTCACAAGTAACATGACCTTGCGTGACAGAGACTTCCCCTGGACCACAACGCTCTCCATGCTTTACATTGAC
AATCCAGTGGGCACAGGCTTCAGTTTTACTGATGATACCCACGGATATGCAGTCAATGAGGACGATGTAGCACGG
GATTTATACAGTGCACCTAATTCAGTTTTTCCAGATATTTCTGAATATAAAAAATAATGACTTTTATGTCACTGGG
GAGTCTTATGCAGGGAATATGTGCCAGCCATTGCACACCTCATCCATTCCCTCAACCCTGTGAGAGAGGTGAAG
ATCAACCTGAACGGAATTGCTATTGGAGATGGATATTCTGATCCCGAATCAATTATAGGGGGCTATGCAGAATTC
CTGTACCAAATTGGCTTGTTGGATGAGAAGCAAAAAAAGTACTTCCAGAAGCAGTGCCATGAATGCATAGAACAC
ATCAGGAAGCAGAACTGGTTTGAGGCCTTTGAAATACTGGATAAACTACTAGATGGCGACTTAACAAGTGATCCT
TCTTACTTCCAGAAATGTTACAGGATGTAGTAATTACTATAACTTTTTGCGGTGCACGGAACCTGAGGATCAGCTT
TACTATGTGAAATTTTTGTCACTCCAGAGGTGAGACAAGCCATCCACGTGGGGAATCAGACTTTTAATGATGGA
ACTATAGTTGAAAAGTACTTGCGAGAAGATACAGTACAGTCAGTTAAGCCATGGTTAACTGAAATCATGAATAAT
TATAAGGTTCGATCTACAATGGCCAACTGGACATCATCGTGGCAGCTGCCCTGACAGAGCGCTCCTTGATGGGC
ATGGACTGGAAGGATCCCAGGAATACAAGAAGGCAGAAAAAAAAGTTTGAAGATCTTTAAATCTGACAGTGAA
GTGGCTGGTTACATCCGGCAAGTGGGTGACTTCCATCAGGTAATTATTCGAGGTGGAGGACATATTTTACCCTAT
GACCAGCCTCTGAGAGCTTTTGACATGATTAATCGATTTCATTTATGGAAAAGGATGGGATCCTTATGTTGGATTAA

ACTACCTTCCCAAAAGAGAACATCAGAGGTTTTTCATTGCTGAAAAGAAAATCGTAAAAACAGAAAATGTCATAGG
AATAAAAAAATTATCTTTTCATATCTGCAAGATTTTTTTTCATCAATAAAAAATTATCCTTGAAA

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FIGURE 1264

MVGAMWKVIVSLVLLMPGPCDGLFHSLYRSVSMPPKGD SGQPLFLTPYIEAGKIQKGRELSLVGPFPGGLNMKSYA
GFLT VNKT YNSNLFFWFFPAQIQPEDAPVVLWLQGGPGGSSMFGLFVEHGPYVVT SNMTLRDRDFPWTTLSMLY
IDNPVGTGFSFTDDTHGYAVNEDDVARDLYSALI QFFQIFPEYKNND FYVTGESYAGKYVPAIAHLIHS LNPVRE
VKINLNGIAIGDGYSDPESIIGGYAEFLYQIGLLDEKQKKYFQKQCHECIEHIRKQNWLEAFEILDKLLDGD LTS
DPSYFQNV TGCSNYYNFLRCTEPEDQLYYVKFLSLPEVRQAIHVGNQTFNDGTIVEKYLREDTVQSVK PWLTEIM
NNYKVL IYNGQLDIIVAAALTEHSLMGMDWKGSQEYKKA EKKVWKILKSDSEVAGYIRQAGDSHQVIIRGGGHIL
PYDQPLRAFD MINRFIYGKWD PYVG

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FIGURE 1265A

CTCCGGCGCCCCGCTCTGCCCGCCGCTGGGTCCGACCGCGCTCGCCTTCCTTGACGCCGCGCCTCGGCCCC**ATGGA**
CGCCCTGTGCGGTTCCGGGGAGCTCGGCTCCAAGTTCTGGGACTCCAACCTGTCTGTGCACACAGAAAACCCGGA
CCTCACTCCCTGCTTCCAGAACTCCCTGCTGGCCTGGGTGCCCTGCATCTACCTGTGGGTGCGCCCTGCCCTGCTA
CTTGCTCTACCTGCGGCACCATTTGTCGTGGCTACATCATCCTCTCCACCTGTCCAAGCTCAAGATGGTCCCTGGG
TGTCTGTCTGTGGTGCCTCTCCTGGGCGGACCTTTTTTACTCCTTCCATGGCCTGGTCCATGGCCGGGGCCCCTG
CCCTGTTTTCTTTGTACCCCCCTTGGTGGTGGGGGTACCATGCTGCTGGCCACCCTGCTGATACAGTATGAGCG
GCTGCAGGGCGTACAGTCTTCGGGGGTCTCATTATCTTCTGTTTCTGTGTGTGGTCTGCGCCATCGTCCCATT
CCGCTCCAAGATCCTTTTAGCCAAGGCAGAGGGTGAGATCTCAGACCCCTTCGGCTTCACCACCTTCTACATCCA
CTTTGCCCTGGTACTCTCTGCCCTCATCTTGGCCTGCTTCAGGGAGAAACCTCCATTTTTCTCCGCAAAGAATGT
CGACCCTAACCCCTACCCTGAGACCAGCGCTGGCTTTCTCTCCCGCCTGTTTTTCTGGTGGTTTCAAAAGATGGC
CATCTATGGCTACCGGCATCCCTGGAGGAGAAGGACCTCTGGTCCCTAAAGGAAGAGGACAGATCCCAGATGGT
GGTGCAGCAGCTGCTGGAGGCATGGAGGAAGCAGGAAAAGCAGACGGCAGACACAAGGCTTCAGCAGCACCTGG
GAAAAATGCCCTCCGGCGAGGACGAGGTGCTGCTGGGTGCCCGGCCAGGCCCGGAAGCCCTCCTTCTGAAGGC
CCTGCTGGCCACCTTCGGCTCCAGCTTCCTCATCAGTGCCTGCTTCAAGCTTATCCAGGACCTGCTCTCCTTCAT
CAATCCACAGCTGCTCAGCATCCTGATCAGGTTTATCTCCAACCCCATGGCCCCCTCCTGGTGGGGCTTCCTGGT
GGCTGGGCTGATGTTCTGTGCTCCATGATGCAGTCGCTGATCTTACAACACTATTACCACTACATCTTTGTGAC
TGGGGTGAAAGTTTCGTACTGGGATCATGGGTGTCTACAGGAAGGCTCTGGTTATACCAACTCAGTCAAACG
TGCGTCCACTGTGGGGGAAATTGTCAACCTCATGTCAGTGGATGCCAGCGCTTCATGGACCTTGCCCCCTTCCT
CAATCTGCTGTGGTACAGACCCCTGCAGATCATCTGGCGATCTACTTCTCTGGCAGAACCTAGGTCCCTCTGT
CCTGGCTGGAGTCGCTTTTATGGTCTTGCTGATTCCACTCAACGGAGCTGTGGCCGTGAAGATGCGCGCCTTCCA
GGTAAAGCAAATGAAATTGAAGGACTCGCGCATCAAGCTGATGAGTGAGATCCTGAACGGCATCAAGGTGCTGAA
GCTGTACGCTGGGAGCCCAGCTTCCTGAAGCAGGTGGAGGGCATCAGGCAGGGTGAGCTCCAGCTGCTGCGCAC
GGCGGCCTACCTCCACACCACAACCACCTTACCTGGATGTGCAGCCCCTTCCTGGTGACCCTGATCACCTCTG
GGTGTACGTGTACGTGGACCCAAACAATGTGCTGGACGCCGAGAAGGCCTTTGTGTCTGTGTCTTGTTTAATAT
CTTAAGACTTCCCCTCAACATGCTGCCCCAGTTAATCAGCAACCTGACTCAGGCCAGTGTGTCTCTGAAAACGGAT
CCAGCAATTCTGAGCCAAGAGGAACCTTGACCCCAAGAGTGTGGAAAGAAAGACCATCTCCCCAGGCTATGCCAT
CACCATACACAGTGGCACCTTACCTGGGCCCAGGACCTGCCCCCACTCTGCACAGCCTAGACATCCAGGTCCC
GAAAGGGGCACTGGTGGCCGTGGTGGGGCCTGTGGGTGTGGGAAGTCTCCTCCTGGTGTCTGCCCTGCTGGGAGA
GATGGAGAAGCTAGAAGGCAAAGTGACATGAAGGGTCCGTGGCCTATGTGCCCCAGCAGGCATGGATCCAGAA
CTGCACTCTTCAGGAAAACGTGCTTTTCGGCAAAGCCCTGAACCCCAAGCGCTACCAGCAGACTCTGGAGGCCTG
TGCTTGTAGCTGACCTGGAGATGCTGCCTGGTGGGGATCAGACAGAGATTGGAGAGAAGGGCATTAACCTGTC
TGGGGGCCAGCGGCAGCGGGTCAGTCTGGCTCGAGCTGTTTACAGTGATGCCGATATTTTCTTGTGCTGATGACC
ACTGTCCGCGGTGGACTCTCATGTGGCCAAGCACATCTTTGACCAGTCTATCGGGCCAGAAGGCGTGTGTCAGG
CAAGACGCGAGTGTGGTGACGCACGGCATTAGCTTCCTGCCCCAGACAGACTTCATCATTGTGCTAGCTGATGG
ACAGGTGTCTGAGATGGGCCGTACCCAGCCCTGCTGCAGCGCAACGGCTCCTTTGCCAACTTTCTCTGCAACTA
TGCCCCCGATGAGGACCAAGGGCACCTGGAGGACAGCTGGACCGCTTGAAGGTGCAGAGGATAAGGAGGCACT
GCTGATTGAAGACACACTCAGCAACCACACGGATCTGACAGACAATGATCCAGTCACCTATGTGGTCCAGAAGCA
GTTTATGAGACAGCTGAGTGCCCTGTCTCAGATGGGGAGGGACAGGGTTCGGCCTGTACCCCGGAGGCACCTGGG
TCCATCAGAGAAGGTGCAGGTGACAGAGGCGAAGGCAGATGGGGCACTGACCCAGGAGGAGAAAGCAGCCATTGG
CACTGTGGAGCTCAGTGTGTTCTGGGATTATGCCAAGGCCGTGGGGCTCTGTACCACGCTGGCCATCTGTCTCCT
GTATGTGGGTCAAAGTGCGGCTGCCATTGGAGCCAATGTGTGGCTCAGTGCCTGGACAAATGATGCCATGGCAGA
CAGTAGACAGAAACAACACTTCCCTGAGGCTGGGCGTCTATGCTGCTTTAGGAATTCTGCAAGGGTTCTTGGTGAT
GCTGGCAGCCATGGCCATGGCAGCGGGTGGCATCCAGGCTGCCCGTGTGTTGCACCAGGCACTGCTGCACAACAA
GATACGCTCGCCACAGTCCTTCTTTGACACCACACCATCAGGCCGCATCCTGAACTGCTTCTCCAAGGACATCTA
TGTCTTGATGAGGTTCTGGCCCCTGTCTATCCTCATGCTGCTCAATTCTTCTTCAACGCCATCTCCACTCTTGT
GGTCATCATGGCCAGCACGCCGCTCTTCACTGTGGTCATCCTGCCCTGGCTGTGCTCTACACCTTAGTGCAGCG
CTTCTATGCAGCCACATCACGGCAACTGAAGCGCTGGAATCAGTCAGCCGCTCACCTATCTACTCCACTTTTC
GGAGACAGTGACTGGTGCCAGTGTCTATCCGGCCCTACAACCGCAGCCGGGATTTTGAGATCATCAGTGATACTAA

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FIGURE 1265B

GGTGGATGCCAACCAGAGAAGCTGCTACCCCTACATCATCTCCAACCGGTGGCTGAGCATCGGAGTGGAGTTCGT
GGGGAACCTGCGTGGTGCTCTTTGCTGCACTATTTGCCGTCATCGGGAGGAGCAGCCTGAACCCGGGGCTGGTGGG
CCTTTCTGTGTCCTACTCCTTGACAGGTGACATTTGCTCTGAACTGGATGATACGAATGATGTCAGATTTGGAATC
TAACATCGTGGCTGTGGAGAGGGTCAAGGAGTACTCCAAGACAGAGACAGAGGCGCCCTGGGTGGTGGAAAGGCAG
CCGCCCTCCCGAAGGTTGGCCCCACGTGGGGAGGTGGAGTTCGGGAATTATTCTGTGCGCTACCGGCCGGGCCT
AGACCTGGTGCTGAGAGACCTGAGTCTGCATGTGCACGGTGGCGAGAAGGTGGGGATCGTGGGCCGCACTGGGGC
TGGCAAGTCTTCCATGACCCCTTTGCCTGTTCCGCATCCTGGAGGCGGCAAAGGTGAAATCCGCATTGATGGCCT
CAATGTGGCAGACATCGGCCTCCTATGACCTGCGCTCTCAGCTGACCATCATCCCGCAGGACCCCATCCTGTTCTC
GGGGACCCCTGCGCATGAACCTGGACCCCTTCGGCAGCTACTCAGAGGAGGACATTTGGTGGGCTTTGGAGCTGTC
CCACCTGCACACGTTTGTGAGCTCCAGCCGGCAGGCCTGGACTTCCAGTGCTCAGAGGGCGGGGAGAATCTCAG
CGTGGGCCAGAGGCAGCTCGTGTGCCTGGCCCGAGCCCTGCTCCGCAAGAGCCGCATCCTGGTTTTAGACGAGGC
CACAGCTGCCATCGACCTGGAGACTGACAACCTCATCCAGGCTACCATCCGCACCCAGTTTGATACCTGCACTGT
CCTGACCATCGCACACCGGCTTAACACTATCATGGACTACACCAGGGTCCTGGTCCTGGACAAAGGAGTAGTAGC
TGAATTTGATTCTCCAGCCAACCTCATTGCAGCTAGAGGCATCTTCTACGGGATGGCCAGAGATGCTGGACTTGC
CTAAAATATATTCTCTGAGATTTCTCTCTGGCCTTTCTGGTTTTTCATCAGGAAGGAAATGACACCAAATATGTCC
GCAGAATGGACTTGATAGCAAACACTGGGGGCACCTTAAGATTTTGCACCTGTAAAGTGCCTTACAGGGTAACTG
TGCTGAATGCTTTAGATGAGGAAATGATCCCCAAGTGGTGAATGACACGCCTAAGGTCACAGCTAGTTTGAGCCA
GTTAGACTAGTCCCCCGGTCTCCCGATTCCCAACTGAGTGTTATTTGCACACTGCACTGTTTTCAAATAACGATT
TTATGAAATGACCTCTGTCTCCCTCTGATTTTTTCATATTTTCTAAAGTTTCGTTTCTGTTTTTAATAAAAAAG
CTTTTTCTCTGGAACAGAAGACAGCTGCTGGGTGAGGCCACCCCTAGGAACTCAGTCCTGTACTCTGGGGTGC
TGCCTGAATCCATTAAAAATGGGAGTACTGATGAAATAAAACTACATGGTCAACAGTAAAAAAAAAAAAAAAAAAAA
A

1422/2825
FIGURE 1266

MDALCGSGELGSKFWDSNLSVHTENPDLTPCFQNSLLAWVPCIYLLWVALPCYLLYLRRHRCRGYIILSHLSKLMV
LGVLLWCVSWADLFYSFHGLVHGRAPAPVFFVTPLVVGVTMLLATLLIQYERLQGVQSSGVLIIFWFLCVVCAIV
PFRSKILLAKAEGEISDPFRFTTFYIHFALVLSALILACFREKPPFFSAKNVDPNPYPETSAGFLSRLFFWWFTK
MAIYGYRHPLEEKDLWSLKEEDRSQMVVQQLLEAWRKQEKQTARHKASAAPGKNASGEDEVLLGARPRPRKPSFL
KALLATFGSSFLISACFKLIQDLLSFINPQLLSILIRFISNPMAPSWWGFLVAGLMFLCSMMQSLILQHYYHYIF
VTGVKFRTGIMGVIYRKALVITNSVKRASTVGEIVNLMSVDAQRFMDLAPFLNLLWSAPLQIILAIYFLWQNLGP
SVLAGVAFMVLILPLNGAVAVKMRAFQVKQMKLSDRIKLMSEILNGIKVLKLYAWEPSFLKQVEGIRQGELOLL
RTAAYLHTTTTTFTWMCSPFLVTLITLWVYVYVDPNNVLD AEKAFVSLSFNILRLPLNMLPQLISNLTQASVSLK
RIQQFLSQEELDPQSVERKTISPGYAITIHSGTFTWAQDLPTLHSLDIQVPKGALVAVVGPVCGKSSLSVALL
GEMEKLEGKVHMKGSVAYVPQQAWIQNCTLQENVLF GKALNP KRYQQTLEACALLADLEMLPGGDQTEIGEKGIN
LSGGQRQRVSLARAVYSADIFLLDDPLSAVD SHVAKHIFDHVIGPEGVLAGKTRVLVTHGISFLPQTDFIIVLA
DGQVSEMGYPALLQRNGSFANFLCNYAPDEDQGHLEDSWTALEGAEDKEALLIEDTLNHTDLTDNDPVTYVVO
KQFMRQLSALS SDGEGQGRPVPRRHLGPSEKVQVTEAKADGALTQEEKAAIGTVELSVFWDYAKAVGLCTTLAIC
LLYVGQSAAAIGANVWLSAWTNDAMADSRQNNTSLRLGVYAALGILQGFLVMLAAMAMAAGGIQAARVLHQALLH
NKIRSPQSFFDTTPSGRILNCF SKDIYVVDEV LAPVILMLLNSFFNAISTLVVIMASTPLFTVVILPLAVLYTLV
QRFYAATSRQLKRLESVSRSPIYSHFSETVTGASVIRAYNRSRDFEII SDTKVDANQRSCYPYIISNRWLSIGVE
FVGNCVVLFAALFAVIGRSSLNPGLVGLSVSYSLQVTFALNWMIRMMSDLESNIVAVERVKEYSKTETEAPWVVE
GSRPPEGWPPRGEVEFRNYSVRYRPGDLVLRLDLSLHVHGGEKVGIVGRTGAGKSSMTLCLFRILEAAKGEIRID
GLNVADIGLHDLRSQLTII PQDPILFSGTLRMNLDPF GSYSEEDIWWALELSHLHTFVSSQPAGLDFQCSEGEN
LSVGQRQLVCLARALLRKSRI LVLDEATAAIDLETDNLIQATIRTQFDTCTVLTIAHRLNTIMDYTRVLVLDKGV
VAEFDSPANLIAARGIFYGMARDAGLA

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FIGURE 1267

CGATTTTCATTCTCGCTCCCCACAGGTCCCTCTCCCCAAAATATTCCCATCTTGTCTAGCCCATCCCCAGACT
ATCTCAAGGACCAGCTGTCCCCACGCCCCGACCTCCACTAGGCCTGTGCCACCCGCTGCCTGCAGGAAGACGCC
CGGTCCCGGGCGGGTTAGCCCCATGGGAACGCAGCGCCTGTGTGGCCGCGGGACTCAAGGCTGGCCTGGCTCAA
GTGAACAGCACGTCCAGGAGGCGACCTCGTCCGCGGGTTTGCATTCTGGGGTGGACGAGCTGGGGGTTTCGGTCCG
AGCCCGGTGGGAGGCTCCCGGAGCGCAGCCTGGGGCCAGCCCACCCCGCGCCGGCGGCCATGGCAGGCACCCTGG
ACCTGGACAAGGGCTGCACGGTGGAGGAGCTGCTCCGCGGGTGCATCGAAGCCTTCGATGACTCCGGGAAGGTGC
GGGACCCGCGAGCTGGTGCATGTTCCTCATGATGCACCCCTGGTACATCCCCTCCTCTCAGCTGGCGGCCAAGC
TGCTCCACATCTACCAACAATCCCGGAAGGACAATCCAATTCCCTGCAGGTGAAAACGTGCCACCTGGTCAGGT
ACTGGATCTCCGCCTTCCCAGCGGAGTTTGACTTGAACCCGGAGTTGGCTGAGCAGATCAAGGAGCTGAAGGCTC
TGCTAGACCAAGAAGGGAACCGACGGCACAGCAGCCTAATCGACATAGACAGCGTCCCTACCTACAAGTGGAAGC
GGCAGGTGACTCAGCGGAACCCTGTGGGACAGAAAAAGCGCAAGATGTCCCTGTTGTTTGACCACCTGGAGCCCA
TGGAGCTGGCGGAGCATCTCACCTACTTGGAGTATCGCTCCTTCTGCAAGATCCTGTTTCAGGACTATCACAGTT
TCGTGACTCATGGCTGCACTGTGGACAACCCCGTCTGGAGCGGTTTCATCTCCCTCTTCAACAGCGTCTCACAGT
GGGTGCAGCTCATGATCCTCAGCAAACCCACAGCCCCGAGCGGGCCCTGGTCATCACACACTTTGTCCACGTGG
CGGAGAAGCTGCTACAGCTGCAGAACTTCAACACGCTGATGGCAGTGGTTCGGGGGCTGAGCCACAGCTCCATCT
CCCGCCTCAAGGAGACCCACAGCCACGTTAGCCCTGAGACCATCAAGCTCTGGGAGGGTCTCACGGAAGTAGTGA
CGGCGACAGGCAACTATGGCAACTACCGGCGTGGCTGGCAGCCTGTGTGGGCTTCCGCTTCCCGATCCTGGGTG
TGCACCTCAAGGACCTGGTGGCCCTGCAGCTGGCACTGCCTGACTGGCTGGACCCAGCCCGGACCCGGCTCAACG
GGGCCAAGATGAAGCAGCTCTTTAGCATCCTGGAGGAGCTGGCCATGGTGACCAGCCTGCGGCCACCAGTACAGG
CCAACCCCGACCTGCTGAGCCTGCTCACGGTGTCTCTGGATCAGTATCAGACGGAGGATGAGCTGTACCAGCTGT
CCCTGCAGCGGGAGCCGCGCTCCAAGTCTCGCCAACCAGCCCCACGAGTTGCACCCCAACCACCCCGGCCCGG
TACTGGAGGAGTGGACCTCGGCTGCCAAACCCAAGCTGGATCAGGCCCTCGTGGTGGAGCACATCGAGAAGATGG
TGGAGTCTGTGTTCCGGAACCTTTGACGTCGATGGGGATGGCCACATCTCACAGGAAGAATTCCAGATCATCCGTG
GGAACCTTCCCTTACCTCAGCGCCTTTGGGGACCTCGACCAGAACCAGGATGGCTGCATCAGCAGGGAGGAGATGG
TTTCCTATTTCTGCGCTCCAGCTCTGTGTTGGGGGGCGCATGGGCTTCGTACACAACCTTCCAGGAGAGCAACT
CCTTGCGCCCCGTGCGCTGCCGCCACTGCAAAGCCCTGATCCTGGGCATCTACAAGCAGGGCCTCAAATGCCGAG
CCTGTGGAGTGAAC TGCCACAAGCAGTGCAAGGATCGCCTGTGAGTTGAGTGTGCGCGCAGGGCCCAGAGTGTGA
GCCTGGAGGGGTCTGCACCCTCACCTCACCCATGCACAGCCACCATCACCGCGCCTTCAGCTTCTCTCTGCCCC
GCCCTGGCAGGCGAGGCTCCAGGCCTCCAGAGATCCGTGAGGAGGAGGTACAGACGGTGGAGGATGGGGTGTGTTG
ACATCCACTTGTAA TAGATGCTGTGGTTGGATCAAGGACTCATTCCTGCCTTGGAGAAAATACTTCAACCAGAGC
AGGGAGCCTGGGGGTGTGCGGGCAGGAGGCTGGGGATGGGGTGGGATATGAGGGTGGCATGCAGCTGAGGGCAG
GGCCAGGGCTGGTGTCCCTAAGGTTGTACAGACTCTTGTGAATATTTGTATTTTCCAGATGGAATAAAAAGGCC
GTGTAATTAACCTTCA

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FIGURE 1268

MGTQRLCGRGTQGWPGSSEQHVQEATSSAGLHSGVDELGVRSEPGGRLPERSLGPAPAPAAAMAGTLDLDKGCTV
EELLRGCI EAFDDSGKVRDPQLVRMFLMMHPWYIPSSQLAAKLLHIYQQSRKDNSNSLQVKTCHLVRYWISAFPA
EFDLNPELAEQIKELKALLDQEGNRRHSSLIDIDSVPTYKWKQVTQRNPVGQKKRKMSSLLFDHLEPMELAEHLT
YLEYRSFCKILFQDYHSFVTHGCTVDNPVLERFISLFNSVSQWVQLMILSKPTAPQRALVITHFVHVAEKLLQLQ
NFNTLMAVVGGLSHSSISRLKETHSHVSPETIKLWEGLTELVTATGNYGNYRRRLAACVGFRFPILGVHLKDLVA
LQLALPDWLDPARTRLNGAKMKQLFSILEELAMVTSLRPPVQANPDLLSLLTVSLDQYQTEDELYQLSLQREPRS
KSSPTSPTSCTPPPRPPVLEEWTSAAKPKLDQALVVEHIEKMVESVFRNFDVDGDGHI SQEEFQIIRGNFPYLSA
FGDLDQNQDGCISREEMVSYFLRSSSVLGGRMGFVHNFQESNSLRPVACRHCKALILGIYKQGLKCRACGVNCHK
QCKDRLSVECRRAQSVSLEGSAPSPSPMHSHHHRAF SFS LPRPGRGRSRPPEIREEEVQTVEDGVFDIHL

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FIGURE 1269

GCCATAAAGGCCGCGCGCGCCACGCGCCTCGCTTGCTGCGCGCTGCCGGCGCTCCTTCCTCCTCGGCTCGCGT
CTCACTCAGTGACCTTCTAGTCCCGCC**ATGG**CCGCTCTCACCCGGGACCCCCAGTTCCAGAAGCTGCAGCAATG
GTACCGCGAGCACCGCTCCGAGCTGAACCTGCGCCGCTCTTCGATGCCAACAAGGACCGCTTCAACCACCTTCAG
CTTGACCCCTCAACACCAACCATGGGCATATCCTGGTGGATTACTCCAAGAACCTGGTGACGGAGGACGTGATGCG
GATGCTGGTGGACTTGGCCAAGTCCAGGGGCGTGGAGGCCGCCCGGGAGCGGATGTTCAATGGTGAGAAGATCAA
CTACACCGAGGGTCGAGCCGTGCTGCACGTGGCTCTGCGGAACCGGTCAAACACACCCATCCTGGTAGACGGCAA
GGATGTGATGCCAGAGGTCAACAAGGTTCTGGACAAGATGAAGTCTTTCTGCCAGCGTGTCCGGAGCGGTGACTG
GAAGGGGTACACAGGCAAGACCATCACGGACGTCAACATTGGCATTGGCGGCTCCGACCTGGGACCCCTCAT
GGTGACTGAAGCCCTTAAGCCATACTCTTCAGGAGGTCCCCGCGTCTGGTATGTCTCCAACATTGATGGAACCTCA
CATTGCCAAAACCTGGCCAGCTGAACCCCGAGTCTCTCCCTGTTTCATCATTGCCTCCAAGACCTTTACTACCCA
GGAGACCATCACGAATGCAGAGACGGCGAAGGAGTGGTTTCTCCAGGCGGCCAAGGATCCTTCTGCAGTGGCGAA
GCACTTTGTTGCCCTGTCTACTAACACAACCAAAGTGAAGGAGTTTGGAAATTGACCCTCAAAACATGTTTCGAGTT
CTGGGATTGGGTGGGAGGACGCTACTCGCTGTGGTTCGGCCATCGGACTCTCCATTGCCCTGCACGTGGGTTTTGA
CAACTTCGAGCAGCTGCTCTCGGGGGCTCACTGGATGGACCAGCACTTCCGCACGACGCCCCCTGGAGAAGAACGC
CCCCGTCTTGCTGGCCCTGCTGGGTATCTGGTACATCAACTGCTTTGGGTGTGAGACACACGCCATGCTGCCCTA
TGACCAGTACCTGCACCGCTTTGCTGCGTACTTCCAGCAGGGCGACATGGAGTCCAATGGGAAATACATCACCAA
ATCTGGAACCCGTGTGGACCACCAGACAGGCCCCATTGTGTGGGGGGAGCCAGGGACCAATGGCCAGCATGCTTT
TTACCAGCTCATCCACCAAGGCACCAAGATGATACCCGTGACTTCTTCATCCCGGTCCAGACCCAGCACCCCAT
ACGGAAGGGTCTGCATCACAAGATCCTCCTGGCCAACCTTCTTGGCCCAGACAGAGGCCCTGATGAGGGGAAAATC
GACGGAGGAGGCCCCGAAAGGAGCTCCAGGCTGCGGGCAAGAGTCCAGAGGACCTTGAGAGGCTGCTGCCACATAA
GGTCTTTGAAGGAAATCGCCCAACCAACTCTATTGTGTTACCAAGCTCACACCATTTCATGCTTGGAGCCTTGGT
CGCCATGTATGAGCACAAGATCTTCGTTACGGGCATCATCTGGGACATCAACAGCTTTGACCAGTGGGGAGTGGA
GCTGGGAAAAGCAGCTGGCTAAGAAAATAGAGCCTGAGCTTGATGGCAGTGCTCAAGTGACCTCTCACGACGCTTC
TACCAATGGGCTCATCAACTTCATCAAGCAGCAGCGCGAGGCCAGAGTCCAA**TAA**ACTCGTGCTCATCTGCAGCC
TCCTCTGTGACTCCCCCTTTCTCTCTCGTCCCTCCTCCCCGGAGCCGGCACTGCATGTTCTGACACCAACCAG
AGCACCCCTCTGGTTGTGGGCTTGGACCACGAGCCCTTAGCAGGGAAGGCTGGTCTCCCCCAGCCTAACCCCCAGC
CCCTCCATGTCTATGCTCCCTCTGTGTTAGAATTGGCTGAAGTGTTTTTGTGCAGCTGACTTTTCTGACCCATGT
TCACGTTGTTACATCCCATGTAGAAAAATAAAGATGCCACGGAGGAGGT

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FIGURE 1270

MAALTRDPQFQKLQQWYREHRSELNLRRLFDANKDRFNHFSLTNTNHHILVDYSKNLVTEDVMRMLVDLAKSR
GVEAARERMFNGEKINYTEGRAVLHVALRNRSNTPILVDGKDVMPEVNKVLDKMKSFQQRVRSQDWKGYTGKTIT
DVINIGIGGSDDLGPLMVTEALKPYSSGGPRVWYVSNIDGTHIAKTLAQLNPESLFIASKTFTTQETITNAETA
KEWFLQAAKDPSAVAKHFVALSTNTTKVKEFGIDPQNMFEFWDWVGGRYSLWSAIGLSIALHVGFDNFEQLLSGA
HWMDQHFRTTPLEKNAPVLLALLGIWYINCFGCETHAMLPYDQYLHRFAAYFQQGDMESENGKYITKSGTRVDHQT
GPIVWGEPTNGQHAFYQLIHQGTKMIPCDFLIPVQTQHPIRKGLHHKILLANFLAQTEALMRGKSTEEARKELO
AAGKSPEDLERLLPHKVFEGNRPTNSIVFTKLTPFMLGALVAMYEHKIFVQGIWDINSFDQWGVDELGKQLAKKI
EPELDGSAQVTSHDASTNGLINFIKQQREARVQ

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FIGURE 1271

CCAAATTATTGTATCTCACAGTGTGGGGAAAAGGAAGAGAGATCAGATTGTTACTGTGTCTGTGTAGAAAAGAAGT
AGACATAGGAGACTCCATTTTGTATGTACTAAGAAAAATTCTTCTGCCTTGAGATTCTGTAAATCTATAACCTT
ACCCCCCAACCCCGTGCTCTCTGAAACATGTGCTGTGTCCCTCTCAGAATTGCCTGTTTTTTGTGCTCCTCCGAGC
TCGCTGTTCTGTCGGGGTTTTTTACGTTTTTAATTTCCAGGACTTGAAGTGCCATGTCCCTCTGAAGAAGGAAAGCTC
TTCGTGGGAGGGCTCAACTTTAACACCGACGAGCAGGCACTGGAAGACCACTTCAGCAGTTTCGGACCTATCTCT
GAGGTGGTCGTTGTCAAGGACCGGGAGACTCAGCGGTCCAGGGGTTTTGGTTTCATCACCTTCACCAACCCAGAG
CATGCTTCAGTTGCCATGAGAGCCATGAACGGAGAGTCTCTGGATGGTCGTCAGATCCGTGTGGATCATGCAGGC
AAGTCTGCTCGGGGAACCAAGAGGAGGTGGCTTTGGGGCCCATGGGCGTGGTCGCAGCTACTCTAGAGGTGGTGGG
GACCAGGGCTATGGGAGTGGCAGGTATTATGACAGTCGACCTGGAGGGTATGGATATGGATATGGACGTTCCAGA
GACTATAATGGCAGAAACCAGGGTGGTTATGACCGCTACTCAGGAGGAAATTACAGAGACAATTATGACAACTGA

AATGAGACATGCACATAATATAGATACACAAGGAATAATTTCTGATCCAGGATCGTCCTTCCAAATGGCTGTATT
TATAAAGGTTTTTGGAGCTGCACTGAAGCATCTTATTTTATAGTATATCAACCTTTTGTTTTTAAATTGACCTGC
CAAGGTAGCTGAAGACCTTTTAGACAGTTCCCATCTTTTTTTTTTAAATTTTTTCTGCCTATTTAAAGACAAATTA
TGGGACGTTTGTAGAACCTGAGTATTTTTCTTTTTACCAGTTTTTTAGTTTGAGCTCTTAGGTTTATTGGAGCTA
GCAATAATTGGTTCCTGGCAAGTTTGGCCAGACTGACTTCAAAAAATTAATGTGTATCCAGGGACATTTTAAAACC
TGTACACAGTGTATTATTGTGGTTAGGAAGCAATTTCCCAATGTACCTATAAGAAATGTGCATCAAGCCAGCCTGA
CCAACATGGTGAAACCCCATCTGTACTAAACATAAAAAAATTAGCCTGGCATGGTGGTGTACGCCTGTAATCCCA
GTGACTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCCGGGAGGCGGAGGTTGCAGTGAGCTAAGATCGCGCCA
CTGTACTCCAGCCTGGACAACAGCGAGAGCTCCATCTCAAAAAAAGGAAATGTGTATCAAGAACATGATTAT
CCAGCGGTATTTTCTAATTCAGATCATCAAAGTATTATATAGAAGAGTTGGCTTTAAATGTTTGCAAAATGTCG
ATGTTGAGAAATGGTATTTCTTCAGTTTTATTTTAGGATTTCTATAGTTTGATGATC

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FIGURE 1272

MSSEEGKLFVGGLNFNTDEQALEDFSSFGPISEVVVKDRETQRSRGFGFITFTNPEHASVAMRAMNGESLDGR
QIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGN
YRDNYDN

1429/2825
FIGURE 1273

TGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGGGAGAAGCTGTGTTTCTTCGCC
GCGTGGATGGCCTATTACATCAATCACCCCTCTCTACACTCCCCCTACCTACGGAGCTCAGCAGGTGAAACTGGCG
CTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCCCTGCGGGACCTGCGGCCCGCTGGG
TCCAAGACGCGGAAGATCCCATACCCACCAAGAACCCCTTACGTGGCTCTTCCTGCTGGTGTCTGCCCCAAC
TGCACCTACGAGGTGGGGTCTTGGATCGGTTTCGCCATCATGACGCAGTGTCTCCCAGTGGCCCTGTTCTCCCTG
GTGGGCTTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTTCCGGGACTACCCG
CCCCTGCGCATGCCCATCATCCCCTTCCTGCTCTGAGCAGCTCACCCCTGCTGAGGCTCAGCCCCTCAACCCGGT
GGCATTCTGGGGGAGGAGTGGGGCCACAGCTCTCCAGCACCCGGAATAAAGCCCGCCTGTCCCCAGTCGGAACA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1274

MKHYEVEILDAKTREKLCFFAAWMAYYINHPLYTPPTYGAQQVKLALAIFVICQLGNFSIHMALRDLRPAGSKTR
KIPYPTKNPFTWLFLLVSCPNTYEVGSWIGFAIMTQCLPVALFSLVGFTQMTIWAKGKHSYLSKEFRDYPPLRM
PIIPFLL

1431/2825
FIGURE 1275

ACCCAGGGTCCGGCCTGCGCCTTCCCGCCAGGCCTGGACACTGGTTCAACACCTGTGACTTCATGTGTGCGCGCC
GGCCACACCTGCAGTCACACCTGTAGCCCCCTCTGCCAAGAGATCCATACCGAGGCAGCGTCGGTGGCTACAAGC
CCTCAGTCCACACCTGTGGACACCTGTGACACCTGGCCACACGACCTGTGGCCGCGGCCTGGCGTCTGCTGCGAC
AGGAGCCCTTACCTCCCCTGTTATAACACCTGACAGCCACCTAACTGCCCCCTGCAGAAGGAGCAATGGCCTTGGC
TCCTGAGAGGTAAGAGCCCCGGCCACCCCTCTCCAGATGCCAGTCCCCGAGCGCCCTGCAGCCGGCCCTGACTCTC
CGCGGCCGGGCACCCGCAGGGCAGCCCCACGCGTGCTGTTTCGGAGAGTGGCTCCTTGGAGAGATCAGCAGCGGCT
GCTATGAGGGGCTGCAGTGGCTGGACGAGGCCCCGACCTGTTTCCGCGTGCCCTGGAAGCACTTCGCGCGCAAGG
ACCTGAGCGAGGCCGACGCGCGCATCTTCAAGGCCTGGGCTGTGGCCCGCGGCAGGTGGCCGGCTAGCAGCAGGG
GAGGTGGCCCGCCCCCGAGGCTGAGACTGCGGAGCGCGCCGGCTGGAAAACCAACTTCCGCTGCGCACTGCGCA
GCACGCGTGCCTTCGTGATGCTGCGAGATAACTCGGGGGACCCGGCCGACCCGCACAAGGTGTACGCGCTCAGCC
GGGAGCTGTGCTGGCGAGAAGGCCCAGGCACGGACCAGACTGAGGCAGAGGCCCCCGCAGCTGTCCACCACCAC
AGGGTGGGCCCCCAGGGCCATTCTTGGCACACACACATGCTGGACTCCAAGCCCCAGGCCCCCTCCCTGCCCCAG
CTGGTGACGAGGGGGACCTCCTGCTCCAGGCAGTGCAACAGAGCTGCCTGGCAGACCATCTGCTGACAGCGTCAT
GGGGGGCAGATCCAGTCCCAACCAAGGCTCCTGGAGAGGGACAAGAAGGGCTTCCCCTGACTGGGGCCTGTGCTG
GAGGCCCAGGGCTCCCTGCTGGGGAGCTGTACGGGTGGGCAGTAGAGACGACCCCCAGCCCCGGGCCCCAGCCCG
CGGCACTAACGACAGGCGAGGCGCGGCCCCAGAGTCCCCGCACCAGGCAGAGCCGTACCTGTACCCCTCCCCAA
GCGCCTGCACCGCGGTGCAAGAGCCCAGCCCAGGGGCGCTGGACGTGACCATCATGTACAAGGGCCGCACGGTGC
TGCAGAAGGTGGTGGGACACCCGAGCTGCACGTTCTTATACGGCCCCCAGACCCAGCTGTCCGGGCCACAGACC
CCCAGCAGGTAGCATTCCCCAGCCCTGCCGAGCTCCCGGACCAGAAGCAGCTGCGCTACACGGAGGAACTGCTGC
GGCACGTGGCCCCCTGGGTTGCACCTGGAGCTTCGGGGGCCACAGCTGTGGGCCCGGCGCATGGGCAAGTGCAAGG
TGTA CTGGGAGGTGGGCGGCCCCCAGGCTCCGCCAGCCCCCTCCACCCAGCCTGCCTGCTGCCTCGGAACTGTG
ACACCCCCATCTTCGACTTCAGAGTCTTCTTCCGAGAGCTGGTGGAAATTCGGGGACGGCAGCGCCGTGGCTCCC
CACGCTATACCATCTACCTGGGCTTCGGGCAGGACCTGTGAGCTGGGAGGCCCAAGGAGAAGAGCCTGGTCCCTGG
TGAAGCTGGAACCCCTGGCTGTGCCGAGTGACCTAGAGGGCACGCAGCGTGAGGGTGTGTCTTCCCTGGATAGCA
GCAGCCTCAGCCTCTGCCTGTCCAGCGCCAACAGCCTCTATGACGACATCGAGTGCTTCTTATGGAGCTGGAGC
AGCCCGCCTAGAACCCAGTCTAATGAGAACTCCAGAAAGCTGGAGCAGCCACCTAGAGCTGGCC

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FIGURE 1276

MPVPERPAAGPDSRPGRRAAPRVLFGEWLLGEISSGCEGLQWLDEARTCFRVPWKHFARKDLSEADARIFKA
WAVARGRWPPSSRGGGPPPEAETAERAGWKTNFRCALRSTRRFVMLRDNSGDPADPHKVYALSRELCWREGPGTD
QTEAEAPAAVPPPQGGPPGPF LAH THAGLQAPGPLPAPAGDEGDLLLQAVQQSCLADHLLTASWGADVP TKAPG
EGQEGPLTLTGACAGGPGLPAGELYGWAVETTPSPGPQPAALT TGEAAAPESPHQAEPYLSPPSACTAVQEPPSG
ALDVTIMYKGRTVLQKVVGHP SCTFLYGPPDFAVRATDPQQVAFPSPAELPDQKQLRYTEELLRHVAPGLHLELR
GPQLWARRMGKCKVYWEVGGPPGSASPSTPACLLPRNCDTPIFDFRVFFRELVEFRARQRRGSPRYTIYLGFGQD
LSAGRPKEKSLVLVKLEPWLCRVHLEGTQREGVSSLDSSSLSLCLSSANS LYDDIECFLMELEQPA

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FIGURE 1277

ACTGATGTCTTGACTCATGGGTGTATTACAAAATTCTGTTACTTCAAGTCTTTTTCTTTTAAACGGATTGATCTTT
TGCTAGATAGAGACAAAATATCAGTGTGAATTACAGCAAACCCCTATTCCATGCTGTTATGGGTGAAACTCTGGG
AGATTCTCCTATTGACCCAGAAAGCGATTCCCTTCACTGATACACTGTCTGCAAACATATCACAAGAAATGACCAT
GGTTGACACAGAGATGCCATTCTGGCCCACTTTGGGATCAGCTCCGTGGATCTCTCCGTAATGGAAGACCA
CTCCCACTCCTTTGATATCAAGCCCTTCACTACTGTTGACTTCTCCAGCATTTCTACTCCACATTACGAAGACAT
TCCATTACACAAGAACAGATCCAGTGGTTGCAGATTACAAGTATGACCTGAAACTTCAAGAGTACCAAAGTGCAAT
CAAAGTGGAGCCTGCATCTCCACCTTATTATTCTGAGAAGACTCAGCTCTACAATAAGCCTCATGAAGAGCCTTC
CAACTCCCTCATGGCAATTGAATGTCGTGCTGTGGAGATAAAGCTTCTGGATTTCACTATGGAGTTTCATGCTTG
TGAAGGATGCAAGGGTTTCTTCCGGAGAACAATCAGATTGAAGCTTATCTATGACAGATGTGATCTTAACTGTCTG
GATCCACAAAAAAGTAGAAATAAATGTCAGTACTGTGGTTTTAGAAATGCCTTGAGTGGGGATGTCTCATAA
TGCCATCAGGTTTGGGCGGATGCCACAGGCCGAGAAGGAGAAGCTGTTGGCGGAGATCTCCAGTGATATCGACCA
GCTGAATCCAGAGTCCGCTGACCTCCGGGCCCTGGCAAAACATTTGTATGACTCATAACATAAAGTCCTTCCCGCT
GACCAAAGCAAAGGCGAGGGCGATCTTGACAGGAAAGACAACAGACAAATCACCATTGTTATCTATGACATGAA
TTCCTTAATGATGGGAGAAGATAAAATCAAGTTCAAACACATCACCCCTGCAGGAGCAGAGCAAAGAGGTGGC
CATCCGCATCTTTAGGGCTGCCAGTTTCGCTCCGTGGAGGCTGTGCAGGAGATCACAGAGTATGCCAAAAGCAT
TCCTGGTTTTGTAAATCTTGACTTGAACGACCAAGTAACTCTCCTCAAATATGGAGTCCACGAGATCATTTACAC
AATGCTGGCCTCCTTGATGAATAAAGATGGGGTTCTCATATCCGAGGGCCAAGGCTTCATGACAAGGGAGTTTCT
AAAGAGCCTGCGAAAGCCTTTTGGTGACTTTATGGAGCCCAAGTTTGAGTTTGCTGTGAAGTTCAATGCACTGGA
ATTAGATGACAGCGACTTGGCAATATTTATTGCTGTCTATTCTCAGTGGAGACCGCCAGGTTTGCTGAATGT
GAAGCCCATGAAGACATTCAAGACAACCTGCTACAAGCCCTGGAGCTCCAGCTGAAGCTGAACCACCCTGAGTC
CTCACAGCTGTTTGCCAAGCTGCTCCAGAAAATGACAGACCTCAGACAGATTGTCACGGAACACGTGCAGCTACT
GCAGGTGATCAAGAAGACGGAGACAGACATGAGTCTTCAACCCGCTCCTGCAGGAGATCTACAAGGACTTGTACTA
GCAGAGAGTCTTGAGCCACTGCCAACATTTCCCTTCTTCCAGTTGCACTATTCTGAGGGAAAATCTGACACCTAA
GAAATTTACTGTGAAAAAGCGTTTTAAAAAGAAAAGGATTTAGAATATGATCTATTTTATGCATATTGTTTATAA
AGACACATTTACAATTTACTTTTAATATTAATAAATTACCATATTATGAAATTGC

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FIGURE 1278

MGETLGDSPIDPESDSFTDTLSANISQEMTMVDTEMPFWPTNFGISSVDLSVMEDHSHSFDIKPFTTVDFSSIST
PHYEDIPFTRTDPVVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFH
YGVHACEGCKGFFRRTIRLKLIIYDRCDLNCRIHKKSRNKCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEI
SSDIDQLNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQE
QSKEVAIRIFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIIYTMLASLMNKDGVLISEGQGF
MTREFLKSRLKPFGRDFMEPKFEFAVKFNALELDDSDLAIFIAVIIISGDRPGLLNVKPIEDIQDNLLQALELQLK
LNHPESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIYKDLY

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FIGURE 1279A

CGGGCCCAGGCGGGGTGCGAGTGGCGCAGTCGGAGCCCCTTGCGGGCCCCTGAGGAAGCGAGGAGGCGTCGGCGTCTC
GGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGCGGCCCCAGGCCCCGAGGGACTCGGGAGCTCGAGCAGCGGCGG
CGGCAAGACCTCTCCCCCTCGGAGGCGGCGGGCGGAGGCGGCGGGAGCGGTGGTGGCCCCCCCCGGGCACGGGGCC
ATGTTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTGTCCCTG
GTGCGGGGCCCGCGGGGTGAGCGGCCTGACTACAAGGAGAGGAGGAAGTGCGGCGCCTGGAGGCTGCCCTGGTG
AAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTTCGAGCTGCGATGCCTCGAGCTGGAGGAG
ATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTGCTGGAG
AAGGATGTGAACCTTGGGGCAAGGAGGAGACCCAGGGCAGAGGCCAGCGGTCACGGAGACTCACCAGTTGGCA
GAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGCAGCTCT
TTTGATCCTCAGCGTCGTGCCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTTGTTCCG
GAGTCTAGCAGTTCTCGCTCACCAACCCCCAAAGCAGAAGAAGAAGAAAAAGATAAGAGGACGCAGGTCA
GAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTGAGAATCTGAGTCCAAG
AAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAACGTAAATCTAAGGACAAAAAGCGAAAGCGGTCTCGAAGT
ACAACACCAGCCCCCAAGAGCCGCCGGGCCACCCTTCAACTTCTGCTGACTCTGCTTCTCCTCCGATACTTCC
CGCAGTCGGTCTCGAAGTGCTGCAGCTAAACTCATACAACCTGCCTTGGCTGGGCGAAGTCTTCCCCCTGCTTCA
GGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGCCCGGAG
ACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACTCGACCT
AGCCCCCTCTCCGAAAGGAGCAGCACAGGCCAGAAACCTGCTCCCACTCCGCTCCTTGCTGAGCGACATGGC
GGCTCCCCACAACCCCTTGCAACCACCCCTTAAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCTCCAACCT
CGGGACCGTTACACCTAAGTCTCCCCGAGAAACTTCCCCAGTCTTCTTCTCCTCAGAGAGCAGCCACCATCCCCCT
CAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCTTAAACCTGCTCCAGCTCCAGGGTCCCAC
CGAGAGATTTCTTCTTCTCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACATTCTCAT
ACCCCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGAACCCT
ACCAAGAGAGGTCAATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGAAGATCT
AGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGTGGTCTAGGAGCAGAAATACCCAGAGA
AGAGGCAGGTCTAGGTGAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCAGCCACTAGGGGTAGATCTCGTTCT
AGAACACCAGCCCCGCCGGGGCAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACTCCCACC
AGGCGTAGGTCTCGGTCTAGAACACCAGCCCCGAGGGGCGAGGTCTCGGTCTAGAACACCTGCTAGGCGCAGATCT
AGGACCCGATCACAGTACGACGCGAGGTCTCGTAGTAGATCACAGCCAGGAGAAGTGGCAGGTACGCTCTAGA
ACCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCAGCCAGACGTGGCCGCTCACGCTCTAGAACCCAGCT
AGACGCAGTGGTCTGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGACGAGGA
AGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGATCTGGC
TCATCTTCAGAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCAGAAATGAAG
AAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTCACCACGGTCCAAAGCAAAATCTCGCTTGTCTTTG
AGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAGCAAAAGTCACAGACACCACCCAGGCGCAGTCGCTCTGGA
TCCTCCCAACCTAAAGCTAAATCTAGAAGCCACCCAGACGCGAGTCGCTCCAGTTCTTCTCCGCCACCTAAACAG
AAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCATCTCCTCATCTAAAGTGAAATCTGGAACACCACCG
AGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTTGAATCA
TCACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCTCTCCTCCTAGAGTGAAA
TCTAGCACACCTCCCAGACAGAGCCCATCTAGGTTCATCTCCACAACCCAAAGTGAAAGCAATAATATCACCA
AGACAAAAGAGCCATTCTGGCTCCTCTTCTCCAAGTCTTAGTAGGGTGACGTCGAGAACAACCTCCACGGCGAAGC
AGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCTCTCCTACCA
GATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAAGTCACTCAGGGTCTATTTACCCATACCCCCAAAGTAAAG
GCCCCAACTCCACCGGGGCCAAGTCTTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGACTCACTA
GTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGTCAGGAGTAAAATCTAGCACACCACCAGGCGAGAGCTATTTT
GGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACCTCACCAGACCACAGATCTGATACTTCAAGTCCAGAA
GTGAGACAGAGTCATTGAGAATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCCGTCCAGG
TCTTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCGAGTCTCT

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FIGURE 1279B

ATGTTGAAATCTGGAATGTCTCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTGGACTCG
AATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAGAGAAAATGGCCTTACCCCCCTCAGGAGGAT
GCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCTTCACTG
GTATTCAAAGACACACTTAGAACCCCGCCAAGAGAAAAGAAGTGGTGCTGGGTCTATCTCCAGAAAACAAAAGAGCAA
AATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCCGCAGGC
CAAACTCTGTCTCATTGTCTTTCAGAACTTAAAGAAAATGTCCACAAGTAACCTTTGAATCATCTCCTGAAGTAGAA
GAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTACAGGCTTCTTTGGAAGCAGTAGAAGTCCCTTCA
ATGGCCTCATCTTGGGGTGGGCCACATTTTTCTCCAGAACATAAAGAAGTGTCTAACTCCCCACTCAGGGAGAAC
AGCTTTGGATCACCTTTAGAATTTAGAACTCAGGCCCACTTGGTACAGAAATGAATACTGGATTTTCTTCTGAG
GTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAACAGATCCATCTCTAGACATGAAAGAACAATCG
ACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCAAATCAG
AGCATCTCTTACCTGTGCTTGATGCTGTACCCAGAACACCCTCGAGAGAAAAGAAGTAGTTCTGCATCTTCTCCT
GAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGAGATGGG
TCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCTCTCCTGGAATGAAAGATATACCTAGAACGCCATTTAGA
GGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTCCTCAGACTCCTAGGCCGAGGAGTCGTTCTCCA
TCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTGATCAG
AAAAGTGTGGCTCGGACTCCCCTGGGGCAGAGAAGTCGTTTCGGGATCCTCTCAAGAAGTTGATGTGAAACCCAGT
GCATCCCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACACGAACCCCACTTCGGCAG
AGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAACTCTCGACTATCCCCTCGGCGCAGTAGGTCTGGTTCC
TCCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCTCTCCTGAACCTAAA
GCTCCAGCCCCCTCGGGCCCTTCCCAGACGAAGCAGATCAGGTTTCATCAAGCAAAGGCAGAGGCCCTTCTCCTGAA
GGAAGCAGCAGTACCGAGTCCTCTCCTGAACATCCGCCCAAATCCAGAAGTCTCGCAGAGGTTCCAGGTCATCA
CCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACAAGGAAG
GCCAGACTGTCCCCTAGAAGCCGCTCTGCCTCATCCTCACCAGAACTCGCTCTAGAAGTCCCCCAAGGCACCGG
AGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAAATCGAGGTCTTACGCCGACGGCGCTCAGCTTCATCT
CCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCCCGTTCC
CGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCTCGGCGA
AGACAGCGGAGCCGGTCAAGGTTCGCGGGTTACTCGCGCGGCGAGGGGAGGCTCTGGTTATCACTCAAGGTACCT
GCCCGGCAGGAAAGTTCCCGGACCTCCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCAACAGTCGGAAG
CGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCACCGGCGA
TCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTCACCAGTCAGCCGGAGACGGTCA
AGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCCAGATCC
AGAACGCCACCAAGTAACCCGCCGTCGTTCAAGGTCTAGAAGCCAAACAACGCCGCCGCTCCCGTTCTAGAAGT
CCACCAGTGACTCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGAAGTTCG
CCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCAACCGAAGGAGATCTCGATCTCGCACATCTCCA
GTAAGTTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCTCCAGCT
ATTTCGGCGCCGCTCTAGATCTCGAACGCCACTGTTACCACGCAAACGTTCTCGAAGTCGCTCACCACCTTGCTATC
CGCCGCCGCTCCAGATCCCGTACTCCACGAACAGCTCGGGGTAAACGGTCTTAACAAGATCTCCTCCAGCCATC
CGCAGGCGTTCTGCATCTGGAAGTAGTTCTGATCGTTACGATCTGCTACTCCTCCAGCAACAAGAAATCATTCT
GGTTACGGACACCTCCAGTAGCACTCAACAGTTCCAGAATGAGCTGCTTCAGTCGTCCTAGCATGTCCCCAACA
CCTCTTGATCGCTGCAGATCACCTGGAATGCTTGAACCCCTTGGCAGCTCTAGAACACCCATGTCTGTCTCTGCAG
CAAGCCGGCGGCTCCATGATGGATGGTCCAGGTCCCCGAATACCTGACCACCAGAGAACATCTGTGCCAGAAAAT
CATGCTCAGTCCAGGATTGCACTTGCCCTGACAGCTATCAGTCTTGGCACCGCTCGGCCTCCTCCGTCCATGTCT
GCTGCTGGCCTTGCTGCAAGAATGTCCAGGTTCCAGCCCCGGTGCTCTCATGAGTCTCAGAACCGCACCCAGCA
GCCAACCTTGCCAGCAGGATTCCCTGCAGCCTCTGCGGCAGCCATGAACCTAGCCAGCGCCAGGACACCTGCCATT
CCAACAGCAGTGAACCTGGCTGACTCTCGAACGCCAGCTGCAGCAGCGGCCATGAACCTTGCCAGCCCCAGAACA
GCGGTGGCACCTTCGGCTGTGAACCTGGCTGACCCTCGCACTCCCACAGCCCCAGCTGTGAACCTAGCAGGGGCC
AGAACCCAGCTGCCTTGGCAGCTCTGAGTCTCACAGGCTCTGGCACACCACCAACTGCTGCAAACTATCCCTCC

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FIGURE 1279C

AGCTCCAGAACACCACAGGCTCCAGCCTCTGCAAACCTGGTGGGTCCTCGGTCTGCACATGCCACAGCTCCTGTG
AATATTGCCGGCTCCAGAACC GCCGAGCCTTGGCCCCCGCGAGCCTCACCAGTGCTAGGATGGCTCCAGCATTG
TCTGGTGCAAACCTCACCAGCCCCAGGGTGCCCCCTTCTGCCTACGAGCGTGTGAGTGGCAGAACCTCACCACCG
CTCCTTGACCGAGCTAGGTCCAGAACACCACCGTCTGCCCCAAGCCAATCTAGGATGACCTCTGAACGGGGCTCCC
TCCCCCTTCTCTAGAATGGGCCAGGCTCCTTTCACAGTCTCTTCTCCCTCCAGCACAGGATCAGCCGAGGTCTCCT
GTGCCTTCTGCTTTTTTTCAGACCAATCCCGTTGTTTGATTGCCAGACCACCCCTGTAGCAGGGTCTCAGTCCCTT
TCCTCTGGGGCAGTGGCAACGACCACGTCTCTGCTGGTGATCACAATGGCATGCTCTCTGTCCCTGCCCTGGG
GTGCCCCACTCTGATGTGGGGGAGCCACCTGCCTCTACTGGGGCCCAGCAGCCTTCTGCATTAGCCGCCCTGCAG
CCAGCAAAGGAGCGGCGGAGTTCTCCTCGTCGTCGTCGTCCTCTAGCTCCTCCTCCTCTTCATCATCGTCGTCG
TCGTCCTCCTCCTCCTCTGGCTCCAGTTCTAGTGA CTGAGAGGGCTCTAGCCTTCTGTGCAACCTGAGGTGGCA
CTGAAGAGGGTCCCCAGCCCCACCCAGCCCCAAAGGAGGCTGTTGAGAGGGACGTCCTCCGGAGCCAACCCCA
GCCAAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGCTCCTCCTCTTCATCTTCTCCTCCTCCTCCTCCTCC
TCTTCTTCTCCTCCTCCTCTTCTTCTTCTTCTTCTTCTCCTCCTCATCTTCTCCTCCTCCTCCTCCTCCTCC
CCTGCTAAGCCTGGCCCTCAGGCCTTGCCCCAACCTGCAAGCCCCAAGAAGCCACCCCTGGCGAGCGGAGGTCC
CGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTCAGCTACTCGCCTGTGGAGCGTCGCCGT
CCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGCAGTGAGCGGGGTTCGCGAGAGGCCAGCGTGGG
GACAGCCGCTCCCCAGCCACAAGCGCAGGAGGGAGACACCTAGCCCTCGGCCCATGAGACACCGCTCCTCCAGG
TCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGAGCCACAAGGAGTGTCCCTTCTTCCCCA
GCAGAGCCGTGGGAGGGTCTTGTCTGCTCTCCTTTGAACCTTGGCAGCCCTTGATGAGAGGGCTCCCTTTCCCT
CCCCTTTTTTTTTTCTTTGTTCTGTGAAATGTTAATCTCCGTGAGTTCTTCTGTTCTATGTGTTCTGGGGGGT
TTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACAGTTCAGGATACCCAGCCTGGAGTCAG
GGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTTCCCAGGGGTGATTGTGATGGTGGTTGGGACTGGAGGTT
GTATAAGGTGTTCTTGGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGTCCCTACTGTCCCCCATGAGGTTGTGAA
CCCCTCCCCCAACTTTTCA TGTTTCTTAAAGGCATTTTGGTTTTTTTAAAATCTGTACAGCAAGAGCAACTTTTT
CTGTCAAATAAAAAATGAGAAATGCAGG

MYNGIGLPTPRGSGTNGYVQRNLSLVRGRRGERPDYKGEELRRLLEALVKRPNPDILDHERKRRVLRCLCLELEE
 MMEEQGYEEQQIQIEKVATFRLMLLEKDVNPGGKEETPGQRPVATETHQLAELNEKKNERLRAAFGISDSYVDGSS
 FDPQRRAREAKQPAPEPPKPYSLVRESSSSSRSPTPKQKKKKKKKKDRGRSESSSPRRERKKSSKKKKHRSESESK
 KRKHSRSPTPKSKRKSCKDKRKRSRSTTPAPKSRRAHRSTSADSASSSDTSRSRSRSAAAKTHTTALAGRSPSPAS
 GRRGEGDAPFSEPGTTSTQRPSSPETATKQPSSPYEDKDKDKKEKSATRPSPPERSSTGPEPPAPTPLLAERHG
 GSPQPLATTPLSQEPVNPPSEASPTRDRSPPKSPEKLPQSSSSSESSPSPQPTKVSRHASSSPESPAPAPGSH
 REISSSPTSKNRSHGRAKRDKSHSHTPSRMRGRSRSPATAKRGRSRSRTPTKRGHSRSPQWRRSRSAQRWGRS
 RSPQRRGRSRSPQRPGWSRNRNTQRRGRSRSAARRGRSHSRSPATRGRSRSRTPARRGRSRSRTPARRRSRSTPT
 RRRSRSRTPARRGRSRSRTPARRRSRTRSPVRRRSRSPARRSGRSRSTPARRGRSRSRTPARRGRSRSRTPA
 RRSGRSRSRTPARRGRSRSRTPRRGRSRSRSLVRRGRSHSRTPQRRGRSGSSSERKNKSRTSQRRSRSNSSPEMK
 KSRISRRSRSLSSPRSKAKSRLSLRRSLSGSSPCPKQKSQTPPRRSRSGSSQPKAKSRTPPRRSRSSSSPFPKQ
 KSKTPSRQSHSSSSPHPKVKSGTTPRQGSITSPQANEQSVTPQRRSCFESSPDPELKSRTPSRHSCSGSSPPRVK
 SSTPPRQSPSRSSSPQPKVKAIISPRQRSHSGSSSPSPSRVTSRTTPRRSRSVSPCSNVESRLLPRYSHSGSSSP
 DTKVKTPETPPRQSHSGSISPYPKVKAQTPPGPSLSGSKSPCPQEKSQSLVQSCPGSLSLCAGVKSSTPPGESYF
 GVSSLQLKGQSQTSPDHRSDTSSPEVRQSHSESPSLQSKSQTSPKGGRSRSSSPVTELASRSPIRQDRGEFSASP
 MLKSGMSPEQSRFQSDSSSYPTVDSNSLLGQSRLETAESKEKMALPPQEDATASPPRQKDKFSPFPVQDRPESSL
 VFKDTLRTPPRERSGAGSSPETKEQNSALPTSSQDEELMEVVEKSEEPAGQILSHLSSELKEMSTSNFESSPEVE
 ERPAVSLTLDQSQSQASLEAVEVPSMASSWGGPHFSPEHKELSNSPLRENSFGSPLEFRNSGPLGTEMNTGFSSE
 VKEDLNGPFLNQLETPSLDMKEQSTRSSGHSSSELSPDAVEKAGMSSNQSISSPVLDAVPRTPSRERSSSASSP
 EMKDGLPRTPSRRSRSGSSPGLRDGSGTSPSRHSLSGSSPGMKDIPRTPFGRSECDSSPEPKALPQTPRPRSRSP
 SSELNNKCLTPQRERSGSESSVDQKTVARPTPLGQRSRSGSSQELDVKPSASPQERSESDSSPDSKAKTRTPLRQ
 RSRSGSSPEVDSKSRSLSPRRSRSGSSPEVKDKPRAAPRAQSGSDSSPEPKAPAPRALPRRSRSGSSSKGRGPSPE
 GSSSTESSPEHPPKSRTARRGRSSPEPKTKSRTPPRRSRSPPELTKARLSRRSRSSASSSPETRSTTPPRHR
 RSPSVSSPEPAEKSRSSRRRSASSPRTKTTSRGRSPSPKPRGLQRSRSRSRREKTRTTRRRDRSGSSQSTSR
 RQSRSRSRVTRRRRRGGSGYHSRSPARQESSRTSSRRRRGRSRTPTTSRKRSRSTSPAPWKRSRSPASPATHR
 SRSTPLISRRRSRSTSPVSRRRSRSTSVTRRRSRSPASPVSRRRSRSTPPVTRRRSRSTPTTRRRSRST
 PPVTRRRSRSTPPVTRRRSRSTSPITRRRSRSTSPVTRRRSRSTSPVTRRRSRSTSPVTRRRSRSTPPA
 IRRRSRSTPLLPKRKSRSRSPLAIRRRSRSTPRTARGKRSLTRSPPAIRRRSAGSSSDRSRSATPPATRNHS
 GSRTPPVALNSSRMSCFSRPSMSPTPLDRCRSPGMLEPLGSSRTPMVSVLQAGGSMMDGPGPRIPDHQRTSVPEN
 HAQSRIALALTAISLGTARPPPSMSAAGLAARMSQVPAPVPLMSLRTAPAAANLASRIPAASAAAMNLASARTPAI
 PTAVNLADSRTPAAAAAMNLASPTAVAPSAVNLAADPRTPAPAVNLAGARTPAALAALSLTGSGTPPTAANYPS
 SSRTQPAPASANLVGPRSAHATAPVNIAGSRATAALAPASLTSARMAPALSGANLTSRVPVLSAYERVSGRTSP
 LLDRARSRTPPSAPSQSRMTSERAPSPSSRMGQAPSQSLPPAQDQPRSPVPSAFSDQSRCLIAQTTPVAGSQSL
 SSGAVATTTSSAGDHNGMLSVAPGVPHSDVGEPPASTGAQQPSALAALQPAKERRSSSSSSSSSSSSSSSSSSSS
 SSSSSSGSSSSDSEGSLLPVQPEVALKRVSPSTPAPKEAVREGRPPEPTPAKRKRSSSSSSSSSSSSSSSSSSSS
 SSSSSSSSSSSSSSSSSSSSSSSSPSPAKPGPQALPKPASPKKPPPGERRSRSPRKPIDSLRDSRSLSPVERRR
 PSPQSPRDOQSSSSERGSRRGQGRSRSPSHKRRRETSPREMRHSSRSP

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FIGURE 1281A

GAATTCTGGGGAAACGGTGTGGAGCGGAGGCCGCGGAGGCTCCTCGGTCCTTCAGCACCCCTCGGCCCCGACGCACCC
ACGCCCCCTCACCCCCCGAGAGCCGAAAATGGACCCAAAGTGGGGTCAAAGTGCTGGAAACAGCAGAGGACATCCAG
GAGAGGCGGCAGCAGGTCCTAGACCGATACACCGCTTCAAGGAACCTCTCAACCCCTTAGGCGTCAGAAGCTGGAA
GATTCTATCGATTCCAGTTCTTTCAAAGAGATGCTGAAGAGCTGGAGAAATGGATACAGGAAAACTTCAGATT
GCATCTGATGAGAATTATAAAGACCCAACCAACTTGCAGGGAAAGCTTCAGAAGCATCAAGCATTGGAAGCTGAA
GTGCAGGCCAACTCAGGAGCCATTGTTAAGCTGGATGAAACTGGAAACCTGATGATCTCAGAAGGGCATTGTC
TCTGAAACCATACGGACCCGTTTGATGGAGCTGCACCGCCAGTGGGAATTACTTTTGGAGAAGATGCGAGAAAA
GGAATCAAATTGCTGCAGGCCCAGAAGCTTGGTGCAGTACTTACGAGAATGTGAGGACGTGATGGACTGGATCAAT
GACAAGGAAGCAATTGTTACTTCTGAAGAGCTGGGCCAGGATCTGGAGCATGTAGAGGTTTTACAGAAGAAATTT
GAAGAGTTTCAAACAGATATGGCTGCTCATGAAGAAAGAGTTAATGAAGTGAACCAGTTTGTGTCCAAACCTCATA
CAGGAGCAGCACCCCTGAGGAGGAACTGATCAAGACTAAGCAGGATGAAGTCAATGCAGCCTGGCAGCGGCTGAAG
GGCCTGGCTCTGCAGAGGCAGGGGAAGCTCTTTGGGGCAGCAGAAGTTCAGCGCTTTAACAGGGATGTGGATGAG
ACTATCAGTTGGATTAAGGAAAAGGAGCAGTTAATGGCCTCTGATGATTTTGGCCGAGACCTGGCAAGTGTTT
GCTCTGCTTCGGAAGCACGAGGGTCTGGAGAGAGATCTTGCTGCTCTAGAAGACAAGGTCAAAGCCCTGTGTGCT
GAGGCTGACCGCTGCAACAGTCCCACCCTCTGAGTGCAACACAGATTCAAGTGAAGCGAGAGGAACTGATTACA
AACTGGGAGCAGATCCGCACCTTGGCGGCAGAGAGACATGCACGGCTCAATGATTTCATACAGGCTTCAACGCTTC
CTTGCTGACTTCCGTGACCTCACCAGCTGGGTGACTGAGATGAAAGCCCTCATCAATGCAGATGAGCTTGCCAGT
GATGTGGCTGGGGCTGAAGCCCTGCTAGATAGACACCAAGAGCACAAGGGTGAAATTGATGCCCATGAAGACAGC
TTCAAATCTGCAGATGAATCTGGACAGGCACTGCTTGCTGCTGGTCACTATGCCTCAGATGAAGTGAGGGAGAAG
CTGACCGTCTCTTCCGAGGAGAGAGCGCGCTGCTGGAGCTGTGGGAGCTGCGCAGGCAGCAGTACGAGCAGTGC
ATGGACCTGCAGCTCTTCTACCGGGACACTGAGCAGGTGGACAACCTGGATGAGCAAGCAGGAGGCGTTCTGTG
AATGAAGACTTGGGAGATTTCTTGATAGTGTGGAAGCGCTTCTTAAGAAGCACGAAGACTTTGAGAAATCCCTT
AGTGCCAGGAGGAAAAGATTACAGCATTAGATGAATTTGCAACCAAGCTAATTCAGAACAACCACTATGCAATG
GAAGATGTGGCCACTCGCCGAGACGCTCTGTTGAGCCGCCGCAATGCCCTTCACGAGAGAGCCATGCGTCGCCGG
GCCAGCTAGCCGATTCTTTCCATCTGCAGCAGTTTTTCCGTGATTCTGATGAGCTCAAGAGTTGGGTGAATGAG
AAGATGAAAACCTGCCACAGATGAAGCTTATAAAGATCCATCCAACCTACAAGGAAAAGTACAGAAGCATCAGGCT
TTTGAGGCTGAGCTCTCAGCAAACCAGAGCCGAATTGATGCCTTGAGAAAAGCTGGCCAAAAGCTGATTGATGTC
AACCCTATGCCAAGGATGAAGTGGCAGCTCGTATGAATGAGGTGATCAGTTTGTGGAAGAACTGCTAGAGGCC
ACTGAACTGAAAGGAATAAAGCTTCGTGAAGCCAACAGCAACAGCAATTTAATCGCAATGTTGAGGATATTGAA
TTGTGGCTATATGAAGTAGAAGGTCACTTGGCTTCGGATGATTACGGCAAAGATCTTACCAATGTGCAGAACCTC
CAGAAGAAACATGCCCTGCTAGAGGCAGATGTGGCTGCTCACCAGGACCGAATTGATGGCGTCACCATTACAGGCC
CGCCAGTTCCAAGATGCTGGCCATTTTGATGCAGAAAACATCAAGAAGAAACAGGAAGCCCTCGTGGCTCGCTAT
GAGGCACTCAAGGAGCCCATGGTTGCCCGGAAGCAGAAGCTGGCCGATTCTCTGCGGTTGCAGCAGCTCTTCCGG
GATGTTGAGGATGAGGAGACGTGGATTGAGAGAAAAGAGCCCATTGCCGCATCTACCAACAGAGGTAAGGATTTA
ATTGGGGTCCAGAATCTGCTAAAGAAACATCAAGCCTTACAAGCAGAAATTGCTGGACATGAACCACGCATCAAA
GCAGTTACACAGAAGGGGAATGCCATGGTGGAGGAAGGCCATTTTGCTGCAGAGGATGTGAAGGCCAAGCTTCAC
GAGCTGAACCAAAAGTGGGAGGCACTGAAAGCAAAAGCTTCCCAGCGTCGGCAGGACCTGGAGGACTCTCTGCAG
GCCCAGCAGTACTTTGCTGATGCTAACGAGGCTGAATCCTGGATGCGGGAGAAGGAACCCATTGTGGGCAGCACT
GACTATGGCAAGGACGAAGACTCTGCTGAGGCTCTACTGAAGAAACACGAAGCTTTGATGTGAGATCTCAGTGCC
TACGGCAGCAGCATCCAGGCTTTGCGAGAACAAGCACAGTCTGCGGCAACAAGTGGCCCCCACGGATGATGAG
ACTGGGAAGGAGCTGGTCTTGCTCTCTACGACTATCAGGAGAAGAGTCCCCGAGAGGTACCATGAAGAAGGGA
GATATCCTTACCTTACTCAACAGCACCAACAAGGATTGGTGGAAAGTGGAAAGTGAACGATCGTCAGGGTTTTGTG
CCGGCTGCGTACGTGAAGAAATTGGACCCCGCCAGTCAGCCTCCCGGGAGAATCTCCTGGAGGAGCAAGGCAGC
ATAGCACTGCGGCAGGAGCAGATTGACAATCAGACACGCATAACTAAGGAGGCCGGCAGTGTATCTCTGCGTATG
AAGCAGGTGGAAGAACTATATCATTCTCTGCTGGAAGTGGGTGAGAAGCGTAAAGGCATGTTGGAGAAGAGTTGC
AAGAAGTTTATGTTGTTCCGTGAAGCGAATGAACTACAGCAATGGATCAATGAGAAGGAAGCCGCTCTGACAAGT
GAGGAGGTGCGAGCAGACTTGGAGCAGGTTGAGGTGCTCCAGAAGAAAGTTTGATGACTTCAGAAGGACCTGAAG
GCCAATGAGTCACGGTTGAAGGACATTAACAAGGTAGCTGAAGACCTGGAGTCTGAAGGTCTTATGGCAGAGGAG

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FIGURE 1281B

GTGCAGGCTGTGCAACAACAGGAAGTGTATGGCATGATGCCAGGGATGAAACTGATTCCAAGACAGCCTCCCCG
TGGAAAGTCTGCTCGTCTGATGGTTACACCGTGGCCACCTTTAATTCCATCAAGGAGCTGAATGAGCGCTGGCGG
TCCCTACAGCAGCTGGCCGAGGAACGGAGCCAGCTCTTGGGCAGCGCCCATGAAGTACAGAGGTTCCACAGAGAT
GCTGATGAAACCAAGAATGGATTGAAGAGAAGAATCAAGCTCTAAACACAGACAATTATGGACATGATCTCGCC
AGTGTCCAGGCCCTGCAACGCAAGCATGAGGGCTTCGAGAGGGACCTTGCGGCTCTCGGTGACAAGGTAACTCC
CTTGGTGAACAGCAGAGCGCCTGACCCAGTCCCATCCCGAGTCAGCAGAAGACCTGCAGGAAAAGTGCACAGAG
TTAAACCAGGCCCTGGAGCAGCCTGGGGAAACGTGCAGATCAGCGCAAGGCAAAGTTGGGTGACTCCCACGACCTG
CAGCGCTTCCTTAGCGATTTCCGGGACCTCATGTCTTGATCAATGGAATACGGGGGTTGGTGTCTCAGATGAG
CTAGCCAAGGATGTCACCGAGCTGAGGCATTGCTGGAGCGACACCAGGAACACCGGACAGAAATCGATGCCAGG
GCTGGCACTTTCCAGGCATTTGAGCAGTTTGACAGCAGCTGTTGGCTCACGGACACTATGCCAGCCCTGAGATC
AAGCAGAACTTGATATTCTTGACCAGGAGCGTGCAGACCTGGAGAAGGCCTGGGTTACAGCGCAGGATGATGCTG
GATCAGTGCCTTGAAGTGCAGCTGTTCCATCGGGACTGTGAGCAAGCTGAGAAGTGGATGGCTGCCCGGGAGGCC
TTCTTGAATACCGAAGACAAAGGAGACTCACTGGACAGCGTAGAGGCTCTGATCAAAAAACATGAAGACTTTGAC
AAAGCGATTAACGTCCAGGAAGAGAAGATTGCTGCTCTGCAGGCCTTTGCCGACCAGCTCATCGCTGCCGGCCAT
TATGCCAAGGGAGACATTTCTAGCCGGCGCAATGAGGTCCTGGACAGGTGGCGACGTCTGAAAGCCAGATGATT
GAGAAAAGGTCAAAGCTAGGAGAATCTCAAACCCTCCAACAGTTCAGCCGGGATGTGGATGAGATTGAGGCTTGG
ATCAGTGA AAAAATTGCAAACAGCGAGTGATGAGTCGTACAAGGATCCCACCAACATCCAGAGCAAGCACCAGAAG
CACCAGGCTTTTGAAGCAGAGCTGCATGCCAACGCTGACCGGATCCGTGGGGTTATCGACATGGGCAACTCCCTC
ATTGAACGTGGAGCCTGTGCCGGCAATGAGGATGCTGTCAAGGCCCGCCTGGCTGCCTTAGCTGACCAGTGGCAA
TTCTTGGTGC AAAAGTCAAGCGAAAAGAGCCAGAACTGAAAGAAGCCAACAAGCAGCAGAACTTCAACACAGGG
ATCAAGGACATTGCATTCTGGCTGTCTGAGGTGGAGGCCCTGCTGGCATCCGAAGATTATGGCAAAGACCTGGCT
TCTGTGAACAACCTGCTGAAAAGCATCAACTGCTGGAAGCAGATATATCTGCCCATGAGGATCGCCTGAAGGAC
CTGAACAGCCAGGCAGACAGCCTGATGACCAGCAGTGCCCTCGACACCTCCCAAGTAAAGGACAAGAGGGACACC
ATCAACGGGCGCTTCCAGAAGATCAAGAGCATGGCGGCCCTCCCGCGAGCCAAGCTGAATGAATCCCATCGCCTG
CACCAGTTCTTCCGGGACATGGATGACGAGGAGTCCTGGATCAAGGAGAAGAAGCTGCTGGTGGGCTCAGAGGAC
TACGGCCGGGACCTAACTGGCGTGCAGAACCTGAGGAAGAAGCACAAAGCGGCTGGAAGCAGAACTGGCTGCGCAT
GAGCCGGCTATTTCAGGTTGTCCTGGACACTGGCAAGAAGCTGTCCGATGACAACACCATCGGGAAAGAGGAGATC
CAGCAGCGGCTGGCGCAGTTTGTGGAGCACTGGAAAGAGCTGAAGCAGCTGGCAGCTGCCCGGGGTGAGCGGCTG
GAAGAGTCCTTGGAATATCAGCAGTTTGTAGCCAATGTGGAAGAGGAAGAAGCCTGGATCAATGAGAAAATGACC
CTGGTGGCCAGCGAAGATTATGGCGACACTCTTGCCGCCATCCAGGGCTTACTGAAGAAACATGAAGCTTTTGAG
ACAGCCTTCAACGTCCACAAGGATCGCGTGAATGATGTCTGCACCAATGGACAAGACCTCATTAGAAGAACAAT
CACCATGAGGAGAACATCTCTTCAAAGATGAAGGGCCTGAACGGGAAAGTGTGAGACCTGGAGAAAGCTGCAGCC
CAGAGAAAGGCGAACGTGGATGAGAACTCGGCCTTCTTCAAGTTCAACTGGAAGCGGACGTGGTGGAGTCTTGG
ATCGGTGAAAAGGAGAACAGCTTGAAGACAGATGATTATGGCCGAGACCTGTCTTCTGTGCAGACGCTCCTCACC
AAACAGGAAACTTTTGACGCTGGGCTGCAGGCCTTCCAGCAGGAAGGCATTGCCAACATCACTGCCCTCAAAGAT
CAGCTTCTCGCCGCCAAACACGTTCAAGTCCAAGGCCATCGAGGCCCCGACGCTCCCTCATGAAGAGGTGGAGC
CAGCTTCTGGCCAACTCAGCCGCCCGCAAGAAGAAGCTTCTGGAGGCTCAGAGTCACTTCCGCAAGGTGGAGGAC
CTCTTCTGACCTTCGCCAAAAGGCTTCTGCCTTCAACAGCTGGTTTGAAAATGCAGAGGAGGACTTAACAGAC
CCCGTGCCTGCAACTCCTTGGAAGAAATCAAAGCTTTGCGCGAGGCCACGACGCCTTCCGCTCCTCCCTCAGC
TCTGCCAGGCTGACTTCAACCAGCTGGCCGAGCTGGACCGCCAGATCAAGAGCTTCCGCGTAGCCTCCAACCCC
TACACCTGGTTTACCATGGAGGCCCTGGAGGAGACCTGGAGGAACCTACAGAAAATCATCAAGGAGAGGGAGCTG
GAGCTGCAGAAGGAACAGCGGCGGCAGGAGGAGAACGACAAGCTGCGCCAGGAGTTTGCCAGCACGCCAACGCC
TTCCACCAGTGGATCCAAGAGACCAGGACATACCTCCTCGATGGGTCTGTATGGTGGAAAGAGTCGGGGACCCCTC
GAATCCAGCTTGAAGCTACCAAACGCAAGCACCAGGAAATCCGAGCCATGAGAAGTCAGCTCAAAAAGATCGAG
GACCTGGGGGGCCGCATGGAGGAGGCCCTCATCCTGGACAACAAGTACACGGAGCACAGCACCCTGGGCCTCGCC
CAGCAGTGGGACCAGCTGGACCAGCTGGGCATGCGCATGCAGCACAACCTGGAGCAGCAGATCCAGGCCAGGAAC
ACAACAGGTGTGACTGAGGAGGCCCTCAAAGAATTGAGCATGATGTTTAAACACTTTGACAAGGACAAGTCTGGC
AGGCTGAACCATCAGGATGGCAAATCTTGCTGCGCTCCCTGGGCTATGACCTGCCCATGGTGGAGGAAGGGGAA

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FIGURE 1281C

CCTGACCCTGAGTTTCGAGGCAATCCTGGACACGGTGGATCCGAACAGAGATGGCCATGTCTCCTTGCAAGAATAC
ATGGCTTTCATGATCAGCCGCGAAACTGAGAACGTCAAGTCCAGCGAGGAGATTGAGAGCGCCTTCCGGGCCCTC
AGCTCAGAGGGAAAGCCTTACGTGACCAAGGAGGAGCTCTACCAGAACCTGACCCGGGAACAAGCCGACTACTGC
GTCTCCCACATGAAGCCCATCGTGGACGGCAAGGGCCGCGAGCTCCCCACCGCGTTGCGACTACGTGGAGTTCACC
CGCTCGCTTTTCGTGAAGTCTGAGCCACTCCCTGGGTCACCCACCCCTCGCTGCTTGCCCTGCGTCGCCTTGCTGCA
TGTCCGCTCCTCTGTGTGCTCTCACTTTCCACTGTAACCTTAAGCCTGCTTAGCTTGGAATAAGACTTAGGAGAA
AATGGTGCTTCACTAACCCGCTTCCGGTCCAGTCACAATCATCATGTCACTGTGGGACCCAGATCTGTGTCTTGA
AGCAGCTGCCCTCATTCCGACTTCAGAAAATCGAAGCAGCTGGCGCCTCCCCTTCGGAATTC

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FIGURE 1282

MDPSGVKVLETAEDIQERRQQVLDRYHRFKELSTLRRQKLED SYRFQFFQRDAEELEKWIQEKLIQIASDENYKDP
TNLQGKLGKHQAFEAQVQANSQAIVKLDDETGNLMISEGHFASSETIRTRLMELHRQWELLLEKMKREKGIKLLQAOQN
LVQYLRCECEDVMDWINDKEAIVTSEELGQDLEHVEVLQKKFEEFQTDMAAHEERVNEVNQFAAKLIQE QHPHEEL
IKTKQDEVNAAWQRLKGLALQRQGLFGAAEVQRFNRDVEDETISWIKKEQQLMASDDFGRDLASVQALLRKHEGL
ERDLAALEDKVKALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLAAERHARLND SYRLQRFLADFRDLTS
WVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSADESGQALLAAGHYASDEVREKLTVLSEERA
ALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMMSKQEAFLNEDLGDFLDSVEALLKKHEDFEKSLSAQEEKITA
LDEFATKLIQNNHYAMEDVATRRDALLSRNALHERAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKMTATDEA
YKDPSNLQGVQKHQAFEAELSANQSRIDALEKAGQKLIDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLR
EANQQQQFNRNVEDIELWLYEVEGHLASDDYGKDLTNVQNQLQKKHALLEADVAHQDRIDGVTIQAQRFQDAGHF
DAENIKKKQEAALVARYEALKEPMVARKQKLADSLRLQQLFRDVEDEETWIREKEPIAASNRGKDLIGVQNLLKK
HQALQAEIAGHEPRIKAVTQKGNAMVEEGHFAAEDVKAKLHELNQKWEALKAKASQRRQDLED SLQAQQYFADAN
EAESWMREKEPIVGSTDYKDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDETGKELVLAL
YDYQEKSPREVTMKGDI LTLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQSASRENLL EEQGSIALRQEQID
NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRKGMLEKSCKKFMLFREANELQQWINEKEAALTSEEVGADLEQ
VEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDETD SKTASPWKSARLMVH
TVATFNSIKELNERWRSLOQLAEERSQLLGSAAEVQRFHRDADETKEWIEEKNQALNTDNYGHDLASVQALQRKH
EGFERDLAALGDKVNSLGETAERLTQSHPEAEDLQEKCTELNQAWSSLGKRADQRKAKLGDSHDLQRFLSDFRD
LMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQFGQQLLAHGHYASPEIKQKLDILDQ
ERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAFNTEDKGDSLDSVEALIKKHEDFDKAINVQEEK
IAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRRLKAQMIEKR SKLGESQTLQQFSRDVDEIEAWISEKLQTAS
DESYKDPTNIQSKHQKHQAFEAELHANADRIRGVIDMGNSLIERGACAGNEDAVKARLAALADQWQFLVQKSAEK
SQKLKEANKQQNFNTGIKDIAFWLSEVEALLASEDYGKDLASVNNLLKKHQLLEADISAHEDRLKD LNSQADSLM
TSSAFDTSQVKDKRDTINGRFQIKISMAASRRAKLNESHRLHQFFRDMDD EESWIKKLLVGS EGYGRDLTG VQ
NLRKKHKRLEAEELAAHEPAIQGVLDTGKKLSDDNTIGKEEIQQRLAQFVEHWKELKQLAAARGQRLEESLEYQQF
VANVEEEEAWINEKMTLVASEDYGDTLAAIQGLLKKHEAFETAFTVHKDRVNDVCTNGQDLIKKNNHHEENISSK
MKGLNGKVS DLEKAAAQRKANVDENSAFLQFNWKADVVE SWIGEKENSLK

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FIGURE 1283A

GCCGTGGCTCCGGTAGCAGCAAGTTCTGAACCCCGCTCCCGCTCCGCTTCGGTTCTCGCTCCTTCGGCCCTTGGGC
CTCCAAACACCAGTCCCCGGCAGCTCGTTGCGCATTGCGCTCTCCCCGCCACCAGGATGCGGGTAACCGAGAAGG
ATCTAGCTGAGGACGCGCCTTGGAAGAAGATCCAGCAGAACACGTTACACGCTGGTGCAACGAGCACCTCAAGT
GCGTGAACAAACGCATCGGCAACCTGCAGACCGACCTGAGCGACGGGCTGCGGCTCATCGCGCTGCTCGAGGTGC
TCAGCCAGAAGCGCATGTACCGCAAGTACCATCAGCGGCCACCTTTCCGCCAGATGCAGCTCGAGAATGTGTCCG
TGGCGCTCGAGTTCCTGGACCGTGAGAGCATCAAGCTCGTGTCCATCGATAGCAAAGCCATTGTGGATGGGAACC
TGAAGCTCATCTTGGGTCTGGTGTGGACGCTGATCCTCCACTACTCCATCTCCATGCCCCGTGTGGGAGGATGAAG
GGGATGATGATGCCAAGAAGCAGACGCCAAAGCAGAGGCTGCTGGGGTGGATTGAGAACAAGATCCCCTACTTGC
CCATCACCAACTTTAACCAGAACTGGCAAGACGGCAAAGCCCTGGGAGCCCTGGTAGACAGCTGTGCTCCAGGTC
TGTGCCCAGACTGGGAATCCTGGGACCCGCAGAAGCCTGTGGATAATGCACGAGAAGCCATGCAGCAGGCAGATG
ACTGGCTGGGTGTCCACAGGTCATCACTCCTGAAGAAATCATTACCCGGATGTGGACGAGCACTCAGTTATGA
CTTACCTGTCCAGTTCCCCAAAGCCAAGCTCAAGCCGGGGGCTCCTCTCAAACCCAAACTCAACCCGAAGAAAG
CCAGGGCCTATGGCAGAGGAATCGAGCCCACTGGAAACATGGTGAAGCAGCCAGCCAAGTTCACTGTGGACACCA
TCAGCGCCGGGCAAGGAGACGTGATGGTGTGTTGTGAGGACCCAGAAGGGAACAAAGAGGAGGCACAAGTGACCC
CTGACAGCGACAAGAACAAGACATACTCTGTGGAGTATCTGCCAAAGGTCACCGGGCTACACAAAGTCACAGTCC
TCTTTGCAGGACAGCACATCTCCAAGAGCCCATTGGAAGTGAGTGTGACAAGGCCCAGGGAGATGCCAGTAAAG
TCACTGCAAAAGGTCCAGGGTTGGAAGCTGTAGGGAACATCGCCAATAAGCCACCTACTTTGACATCTATACGG
CAGGAGCTGGTGTGGGTGACATTGGTGTGGAGGTGGAAGATCCCCAGGGGAAGAACACCGTGGAGTTGCTCGTGG
AAGACAAAGGAAACCAGGTGTATCGATGTGTGTACAAACCCATGCAGCCTGGCCCTCACGTGGTCAAGATCTTCT
TTGCTGGGGACACTATTCTAAGAGTCCCTTCGTTGTGAGGTTGGGGAAGCCTGCAATCCAAATGCCTGCCGGG
CCAGTGGCCGAGGCCTACAACCCAAAGGCGTCCGTATCCGGGAGACCACAGATTTCAAGGTTGACACCAAAGCTG
CAGGAAGTGGGGAGCTCGGGGTAACCATGAAGGGTCTTAAGGGTCTGGAGGAGCTGGTGAAGCAGAAAGACTTTC
TGGATGGGGTCTACGCATTGAGTATTACCCAGCACCCCGGGGAGATACAGCATTGCCATCACATGGGGGGGAC
ACCACATTCCAAAGAGCCCCCTTTGAAGTTCAAGTTGGCCCTGAAGCGGGTATGCAGAAAGTCCGTGCTTGGGGCC
CTGGGCTCCATGGTGGGATTGTGCGGCGGTACAGCGGACTTCGTGGTAGAATCCATTGGCTCTGAAGTGGGGTCTC
TGGGGTTTGCCATTGAAGGCCCTCTCAGGCAAAGATTGAGTACAACGACCAGAATGATGGATCGTGTGATGTCA
AATACTGGCCCAAGGAGCCTGGCGAATATGCTGTTACATCATGTGTGACGACGAAGACATCAAGGACAGCCCGT
ACATGGCCTTCATCCACCCAGCCACGGGAGGCTACAACCTGATCTGGTTCGAGCATACGGGCCAGGTTTGGAGA
AATCTGGATGCATTGTCAACAACCTGGCCGAGTTCACTGTGGATCCTAAGGATGCTGGAAAAGCTCCCTTAAAGA
TATTTGCTCAGGATGGGGAAGGCCAACGCATTGACATCCAGATGAAGAACCGGATGGACGGCACATATGCATGCT
CATACACCCCGGTGAAGGCCATCAAGCACACCATGCTGTGGTCTGGGGAGGCGTGAACATCCCGCACAGCCCT
ACAGGGTCAACATCGGGCAAGGTAGCCATCCTCAGAAGGTCAAAGTGTTTGGGCCAGGTGTGGAGAGAAGTGGTC
TGAAGGCAAAATGAACCTACACACTTCACGGTGGACTGTACTGAGGCTGGGGAAGGTGATGTGAGTGTGGCATT
AGTGTGATGCCCCGGTGTAAAGTGAAGATGAGGAAGACGTGGATTTTGACATTATTACAAATGCCAATGATACGT
TCACAGTCAAATATGTGCCTCCTGCTGCTGGGCGATACACTATCAAAGTTCTCTTTGCATCTCAGGAAATCCCCG
CCAGCCCTTTCAGAGTCAAAGTTGACCCTTCCCACGATGCCAGCAAAGTGAAGGCAGAAGGCCCAGGGCTCAGCA
AAGCAGGTGTGGAAAATGGGAAACCGACCCACTTCACTGTCTACACCAAGGGGGCTGGGAAAGCCCCGCTCAACG
TGCAGTTCAACAGCCCTCTTCCTGGCGATGCAGTGAAGGATTTGGATATCATCGATAATTATGACTACTCTCACA
CGGTTAAATATACACCCACCCAACAGGGCAACATGCAGGTTCTGGTGACTTACGGTGGCGATCCCATCCCTAAAA
GCCCTTTCCTGTGGGTGTGCTGCACCGCTGGATCTGAGCAAAGATAAACTCAATGGGCTGGAAAACAGGGTGG
AAGTTGGGAAGGATCAGGAGTTCACCGTTGATACCAGGGGGGCGAGGAGGCCAGGGGAAGCTGGACGTGACAAATCC
TCAGCCCCCTCTCGGAAGGTCTGTGCCATGCCTAGTGACACCTGTGACAGGCCGGGAGAACAGCACGGCCAAGTTCA
TCCCTCGGGAGGAGGGGCTGTATGCTGTAGACGTGACCTACGATGGACACCCTGTGCCCCGGGAGCCCCCTACACAG
TGGAGGCCCTCGCTGCCACCAGATCCAGCAAGGTGAAGGCCACGGTCCCGGCCCTCGAAGGTGGTCTCGTGGGCA
AGCCTGCCGAGTTCACCATCGATACCAAAGGAGCTGGTACTGGAGGTCTGGGCTTAACGGTGAAGGTCCGTGCG
AGGCCAAAATCGAGTGCTCCGACAATGGTGTAGGGACCTGCTCCGTCTCTTACCTTCCCACAAAACCCGGGGAGT
ACTTCGTCAACATCCTCTTTGAAGAAGTCCACATACCTGGGTCTCCCTTCAAAGCTGACATTGAAATGCCCTTTG
ACCCCTCTAAAGTCGTGGCATCGGGGCCAGGTCTCGAGCACGGGAAGGTGGGTGAAGCTGGCCTCCTTAGCGTCA

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FIGURE 1283B

ACTGCTCGGAAGCGGGACCGGGGGCCCTGGGCCTGGAAGCTGTCTCGGACTCGGGAACAAAAGCCGAAGTCAGTA
TTCAGAACAAACAAAGATGGCACCTACGCGGTGACCTACGTGCCCCCTGACGGCCGGCATGTACACGTTGACCATGA
AGTATGGTGGCGAACTCGTGCCACACTTCCCCGCCCGGGTCAAGGTGGAGCCCGCCGTGGACACCAGCAGGATCA
AAGTCTTTGGACCAGGAATAGAAGGGAAAGATGTGTTCCGGGAAGCTACCACCGACTTTACAGTTGACTCTCGGC
CGCTGACCCAGGTTGGGGGTGACCACATCAAGGCCCCACATTGCCAACCCCTCAGGGGCCTCCACCGAGTGCTTTG
TCACAGACAATGCGGATGGGACCTACCAGGTGGAATACACACCCTTTGAGAAAGGTCTCCATGTAGTGAGGTGA
CATATGATGACGTGCCTATCCCAAACAGTCCCTTCAAGGTGGCTGTCACTGAAGGCTGCCAGCCATCTAGGGTGC
AAGCCCAAGGACCTGGATTGAAAGAGGCCTTTACCAACAAGCCCAATGTCTTCACCGTGTTACCAGAGGCGCAG
GAATTGGTGGGCTTGGCATAACTGTTGAGGGACCATCAGAGTCGAAGATAAATTGCAGAGACAACAAGGATGGCA
GCTGCAGTGCTGAGTACATTCTTTTCGCGCCGGGGGATTACGATGTTAATATCACATATGGAGGAGCCACATCC
CTGGCAGCCCCCTTCAGGGTTCTGTGAAGGATGTTGTGGACCCAGCAAGGTCAAGATTGCCGGCCCCGGGCTGG
GCTCAGGCGTCCGAGCCCGTGTCTGCAGTCCTTCACGGTGGACAGCAGCAAGGCTGGCCTGGCTCCGCTGGAAG
TGAGGGTTCTGGGCCCACGAGGCTTGGTGGAGCCAGTGAACATGGTGGACAATGGAGATGGCACACACACAGTAA
CCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGAGATTCTCGCAGTCCCT
TCAAGGTCAAGGTCCTTCCACATATGATGCCAGCAAAGTGACTGCCAGTGGCCCCGGCCTTAGTTCTATGGTG
TGCTGCCAGTCTACCTGTGGACTTTGCAATTGATGCCCCGAGATGCCGGGGAAGGCCTGCTTGCTGTTCAAATAA
CGGACCAAGAAGGAAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTACCTACATCC
CCGACAAGACTGGGCGCTATATGATTGGAGTCACTACGGGGGTGACGACATCCCACTTTCTCCTTATCGCATCC
GAGCCACACAGACGGGTGATGCCAGCAAGTGCCTGGCCACGGGTCTGGAATCGCCTCCACTGTGAAAACCTGGCG
AAGAAGTAGGCTTTGTGGTTGATGCCAAGACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCAGATG
GCACTGAGGCCGAGGCCGATGTCATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTGCCAAGCCGG
GCACATATGTGATCTATGTGCGCTTCGGTGGTGTGATATTCTAACAGCCCCCTTCACTGTGATGGCCACAGATG
GGGAAGTCACAGCCGTGGAGGAGGCACCGGTAAATGCATGTCCCCCTGGATTGAGGCCCTGGGTGACCGAAGAGG
CCTATGTCCAGTGAGTGACATGAACGGCCTGGGATTTAAGCCTTTTGACCTGGTCATTCCGTTTGCTGTGAGGA
AAGGAGAAATCACTGGAGAGGTCCACATGCCTTCTGGGAAGACAGCCACACCTGAGATTGTGGACAACAAGGACG
GCACGGTCACTGTTAGATATGCCCCACTGAGGTGCGGCTCCATGAGATGCACATCAAATACATGGGCAGCCACA
TCCCTGAGAGCCCACTCCAGTTCTACGTGAACTACCCCAACAGTGGAAGTGTTTCTGCATACGGTCCAGGCCTCG
TGTATGGAGTGGCCAACAAAACCTGCCACCTTACCATCGTCACAGAGGATGCAGGAGAAGGTGGTCTGGACTTGG
CTATTGAGGGCCCCCTCAAAAAGCAGAAATCAGCTGCATTGACAATAAAGATGGGACATGCACAGTGACCTACCTGC
CGACTCTGCCAGGCGACTACAGCATTCTGGTCAAGTACAATGACAAGCACATCCCTGGCAGCCCCCTTACAGCCA
AGATCACAGATGACAGCAGGCGGTGCTCCAGGTGAAGTTGGGCTCAGCCGCTGACTTCTGCTCGACATCAGTG
AGACTGACCTCAGCAGCCTGACGCGCAGCATTAAAGCCCCATCTGGCCGAGACGAGCCCTGTCTCTGAAGAGGC
TGCCCAACAACCACATTGGCATCTCCTTCATCCCCCGGAAGTGGGCGAACATCTGGTCAGCATCAAGAAAAATG
GCAACCATGTGGCCAACAGCCCCGTGTCTATCATGGTGGTCCAGTCGGAGATTGGTGACGCCCGCCGAGCCAAAG
TCTATGGCCGCGGCTGTGAGAAGGCCGACTTTCGAGATGTCTGACTTCATCGTGGACACAAGGGATGCAGGTT
ATGGTGGCATATCCTTGGCGGTGGAAGGCCCCAGCAAAGTGGACATCCAGACGGAGGACCTGGAAGATGGCACCT
GCAAAGTCTCCTACTTCCCTACCGTGCTGGGGTTTATATCGTCTCCACCAAATTCGCTGACGAGCACGTGCCTG
GGAGCCCATTTACCGTGAAAGATCAGTGGGGAGGGAAGAGTCAAAGAGAGCATCACCCGCACAGTCGGGCCCGT
CCGTGGCCACTGTGCGGAGCATTGTGACCTGAACCTGAAAATCCAGAAATCAACAGCAGTGATATGTGCGCCC
ACGTCACAGCCCCCTCTGGCCGTGTGACTGAGGCAGAGATTGTGCCATGGGGAAGAACTCACACTGCGTCCGGT
TTGTGCCCCAGGAGATGGGCGTGCACACGGTCAGCGTCAAGTACCGTGGGCAGCACGTCACCGGCAGCCCCCTTCC
AGTTCACCGTGGGGCCACTTGGTGAAGGAGGCGCCACAAGGTGCGGGCAGGAGGCCCTGGCCTGGAGAGAGGAG
AAGCGGGAGTCCCAGCTGAGTTCAGCATTGAGCCCGGAAGCAGGCGCTGGAGGCCCTCTCCATCGCTGTTGAGG
GCCCCAGTAAGGCCGAGATTACATTGATGACCATAAAAATGGGTGCTGCGGTGTATCTTATATTGCCAAGAGC
CTGGTAACTACGAGGTGTCCATCAAGTTCAATGATGAGCACATCCCGGAAAGCCCCCTACCTGGTGCCGGTCATCG
CACCCTCCGACGACGCCCGCCGCTCACTGTTATGAGCCTTCAGGAATCGGGATTAAAGTTAACCAGCCAGCAT
CCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGATGCAAAGGTGCACAGCCCCCTCTGGAGCCGTGGAGG
AGTGCCACGTGTCTGAGCTGGAGCCAGATAAGTATGCTGTTGCTTCATCCCTCATGAGAATGGTGTCCACACCA

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FIGURE 1283C

TCGATGTCAAGTTCAATGGGAGCCACGTGGTTGGAAGCCCCTTCAAAGTGC GCGTTGGGGAGCCTGGACAAGCGG
GGAACCCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGAAGGGGGCACCACAGGTATCCAGTCGGAATTCTTTA
TTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCACCATCGAAGGCCCATCCAAGGTTAAAAATGGATTGCC
AGGAAACACCTGAAGGGTACAAAGTCATGTACACCCCCATGGCTCCTGGTAACTACCTGATCAGTGTCAAATACG
GTGGGCCCCAACCACATCGTGGGCAGTCCCTTCAAGGCCAAGGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTCAG
CCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAGGTCGTCTACAGAGACCTGCTATAGCGCCATTCCCA
AGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGCAGGGCTCTCAAAGGCCCTTTGTGGGCCAGAAAGATT
CCTTCCCTGGTGGACTGCAGCAAAGCTGGCTCCAACATGCTGCTGATCGGGGTCCATGGGCCCACCACCCCTGCG
AGGAGGTCTCCATGAAGCATGTAGGCAACCAGCAATACAACGTCACATACGTCGTCAGGAGAGGGGCGATTATG
TGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCAGCCCTTTTCATGTCACAGTGCCTTAAAAACAGTTTTC
TCAAATCCTGGAGAGAGTTCTTGTGGTTGCTTTTGTGCTTGTGTTGTAATTCATTTTATACAAAGCCCTCCAGCC
TGTTTGTGGGGCTGAAACCCCATCCCTAAAAATATTGCTGTTGTAAAATGCCTTCAGAAATAAGTCTTAGACTGGA
CTCTTGAGGGACATATTGGAGAATCTTAAGAAATGCAAGCTTGTTTCAGGGGGCTGAGAAGATCCTGAGTACACTA
GGTGCAAACCAGAACTCTTGGTGGAAACAGACCAGCCACTGCAGCAGACAGACCAGGAACACAATGAGACTGACAT
TTCAAAAAAACAAACTGGCTAGCCTGAGCTGCTGGTTTCACTCTTCAGCATTTATGAAACAAGGCTAGGGGAAGA
TGGGCAGAGAAAAAGGGGACACCTAGTTTGGTTGTCATTTGGCAAAGGAGATGACTTAAAAATCCGCTTAATCTCT
TCCAGTGTCCGTGTTAATGTATTTGGCTATTAGATCACTAGCACTGCTTTACCGCTCCTCATCGCCAACACCCCC
ATGCTCTGTGGCCTTCTTACACTTCTCAGAGGGCAGAGTGGCAGCCGGGCACCCTACAGAAACTCAGAGGGCAGA
GTGGCAGCCAGGCCACATGTCTCTCAAGTACCTGTCCCCTCGCTCTGGTGATTATTTCTTGAGAAATCACCACA
CGAGACCATCCCGGCAGTCATGGTTTTGCTTTAGTTTTCCAAGTCCGTTTCAGTCCCTTCCTTGGTCTGAAGAAA
TTCTGCAGTGGCGAGCAGTTTTCCCACTTGCCAAAAGATCCCTTTTAAACCAACACTAGCCCTTGTTTTTAACACACG
CTCCAGCCCTTCATCAGCCTGGGCAGTCTTACCAAAAATGTTTAAAGTGATCTCAGAGGGGGCCCATGGATTAACGC
CCTCATCCCAAGGTCCGTCCCATGACATAACACTCCACACCCGCCCCAGCCAACCTTCATGGGTCACTTTTTCTGG
AAAAATAATGATCTGTACAGACAGGACAGAATGAAACTCCTGCGGCTCTTTGGCCTGAAAGTTGGGAATGGTTGGG
GGAGAGAAGGGCAGCAGCTTATTGGTGGTCTTTTACCATTGGCAGAAACAGTGAGAGCTGTGTGGTGCAGAAAT
CCAGAAATGAGGTGTAGGGAATTTTGCCTGCCTTCCTGCAGACCTGAGCTGGCTTTGGAATGAGGTTAAAGTGT
AGGGACGTTGCCTGAGCCCAAATGTGTAGTGTGGTCTGGGCAGGCAGACCTTTAGGTTTTGCTGCTTAGTCCTGA
GGAAGTGGCCACTCTTGTGGCAGGTGTAGTATCTGGGGCGAGTGTGTTGGGGGTAAAAGCCCACCCTACAGAAAGTG
GAACAGCCCGGACCTGATGTGAAAGGACCACGGGTGTTGTAAGCTGGGACCGGAACCAAACTGGAATCAAACGCG
ACTGTAAATTGTATCTTATAACTTATTAAATAAAACATTGCTCCGTAAAAA

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FIGURE 1284

MPVTEKDLAEDAPWKKIQONTFTRWCNEHLKCVNKRIGNLQTDLS DGLRLIALLEVL SQRMYRKYHQRP TFROM
QLENVSVALEFLDRESIKLVSIDSKAIVDGNLKLILGLVWTLILHYSISMPVWEDEGDDDAKKQTPKQRL LGWIO
NKIPYLPITNFNQNWQDGKALGALVDSCAPGLCPDWESWDPQKPVDNAREAMQQADDWLGV PQVITPEEIIHPDV
DEHSVMTYLSQFPKAKLKPGAPLKPKLNPKKARAYGRGIEPTGNMVKQPAKFTVDTISAGQGDVMVFVEDPEGNK
EEAQVTPDSDKNKTY SVEYLPKVTGLHKVTVLFA GQHISKSPFEVSVDKAQGDASKVTAKGPGLEAVGN IANKPT
YFDIYTAGAGVGDIGVEVEDPQGKNTVELLVEDKGNQVYRCVYKPMQPGPHVVKIFFAGDTIPKSPFVVQVGEAC
NPNACRASGRGLQPKGVRIRETTFKVDTKAAGSGELGVTMKGPKGLEELVKQKDFLDGVYAFEYYPSTPGRYSI
AITWGGHHIPKSPFEVQVGPEAGMQKVRWGPGLHGGIVGRSADFVVE SIGSEVGS LGFAIEGPSQAKIEYNDQN
DGSCDVKYWPKEPGEYAVHIMCDEDEDIKDSPYMAFIHPATGGYNPDLVRAYGPGLEKSGCIVNNLAEFTVDPKDA
GKAPLKIFAQDGEGQRIDIQMKNRMDGTIACSYTFVKAIKHTIAVWGGVNI PHSPYRVNIGQGSHPQKV KVF GP
GVERSG LKANEP THFTVDCTEAGEGDVSVGIKCDARV LSEDEEDVDFDI IHNANDTFTVKYVFPAAGRYTIKVL F
ASQEIPASPFVRKVDP SHDASKVKAEGPGLSKAGVEN GKPTHTFTVYTKGAGKAPLN VQFNSPLPGDAVKDLDIID
NYDYSHTVKYTP TQQGNMQVLVTYGGDPIPKSPFTVGVAAPLDLSKIKLNGL ENRVEVGKDQEF TVDTRGAGGQG
KLDVTILSPSRKVVPCLVTPVTGRENSTAKFIPREEGLYAVDVTYDGHFVPGSPYTVEASLPDP SKVKAHGPGL
EGGLVGKPAEFTIDTKGAGTGGLGLTVEGPCEAKIECSDNGDGTCSVSYLPTKPG EYFVNILFEEVHIPGSPFKA
DIEMPFDP SKVVASGPGL EHGKVGEAGLLSVNCSEAGPGALGLEAVSDSGTKAEVSIQNNKDGTYAVTYVPLTAG
MYTLTMKYGGELVPHFPARVKVEPAVDTSRIKVF GPGIEGKDV FREATTDF TVDSRPLTQVGGDHIKAHIANPSG
ASTECFVTDNADGT YQVEYTPFEKGLHVVEVTYDDVPIPN SPFKVAVTEGCQPSRVQAQGPGLKEAFTNKP NVFT
VVTRGAGIGGLGITVEGPSESKINCRDNKDGSCSAEYIPFAPGDYDVNITYGGAHIPGSPFRVPVKDVVDP SKVK
IAGPGLGSGVRARVLQSFTVDSSKAGLAPLEVRVLGPRGLVEPVNMVDNGDGHTHTVYTPSQEGPYMVS VKYADE
EIPRSPFKVKVLPTYDASKVTASGPGLSSYGVPASLPVDF AIDARDAGEGLLAVQITDQEGKPKRAIVHDNKDGT
YAVTYIPDKTGRYMIGVTYGGDDIPLSPYRIRATQTGDASKCLATGPGIASTVKTGEEVGFVVD AKTAGKGKVT C
TVLTPDGTEAEADVIENEDGT YDIFYTAAKPGTYVIYVRFGGVDIPNSPFTVMATDGEVTAVEEAPVNACPPGFR
PWVTEEAYVPVSDMNGLGFKPFDLVIPFAVRKGEITGEVHMPSGKTATPEIVDNKDGTVTVRYAPTEVGLHEMHI
KYMGS HIPESPLQFYVNYPNSGSVSAYGPGLVYG VANKTATFTIVTEDAGEGGLDLAIEGPSKAEISCIDNKDGT
CTVTYLPTLPGDYSILVKYNDKHIPGSPFTAKITDDSRCSQVKLGSAADFLLDISETDLSSLTASIKAPSGRDE
PCLLKRLPNNHIGISFIPREVGEHLVSIKKNGNHVANSFV SIMVVQSEIG

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FIGURE 1285

CTTCCCCAGCTGTGCACTCTCCATCCAGCTGTGCGCTCTCGTCGGGAGTCCCAGCCATGTCCGACGAGAGAGAGG
TAGCCGAGGCAGCGACCGGGGAAGACGCCTCTTCGCCGCTCCGAAAACCGAGGCAGCGAGCGACCCCCAGCATC
CCGCGGCTCCGAAGGGGCCGCCGCCGCCGCTCGCCGCCACTGCTGCGCTGCCTAGTGCTCACCGGCTTTG
GAGGCTACGACAAGGTGAAGCTGCAGAGCCGGCCGGCAGCGCCCCCGGCCCTGGGCCCCGGCCAGCTGACGCTGC
GTCTGCGGGCCTGCGGGCTCAACTTCGCAGACCTCATGGCTAGGCAGGGGCTGTACGACCGTCTCCCGCTCTGC
CTGTCACTCCGGGCATGGAGGGCGCGGGTGTGTGTGATCGCAGTGGGCGAGGGAGTCAGCGACCGCAAGGCAGGAG
ACCGGGTGATGGTGTGAACCGGTCAGGGATGTGGCAGGAAGAGGTGACTGTGCCCTCGGTCCAGACCTTCCTGA
TTCCTGAGGCCATGACCTTTGAGGAAGCTGCTGCCTTGCTCGTCAATTACATTACAGCCTACATGGTCCTCTTTG
ACTTCGGCAACCTACAGCCTGGCCACAGCGTCTTGGTACACATGGCTGCAGGGGGTGTGGGTATGGCTGCCGTGC
AGCTGTGCCGTACAGTGGAGAATGTGACAGTGTTCGGAACGGCCTCGGCCAGCAAGCACGAGGCACTGAAGGAGA
ATGGGGTCACACATCCCATCGACTATCACACGACTGACTACGTGGATGAGATCAAGAAGATTTCCCCTAAAGGAG
TGGACATTGTATGGACCCTCTGGGTGGGTGAGATACTGCCAAGGGCTACAACCTCCTGAAACCCATGGGCAAAG
TCGTCACCTATGGAATGGCCAACCTGCTGACGGGCCCCAAACGGAACCTGATGGCCCTGGCCCGGACATGGTGG
ATCAGTTTACGCTGACAGCTCTGCAGCTGCTGCAGGCCAACCGGGCTGTGTGTGGCTTCCACCTGGGCTACCTGG
ATGGTGAGGTGGAGCTGGTCAGTGGTGTGGTGGCCCGCTCCTGGCTCTGTACAACAGGGCCACATCAAGCCCC
ACATTGACTCAGTCTGGCCCTTCGAGAAGGTGGCTGATGCCATGAAACAGATGCAGGAGAAGAAGAATGTGGGCA
AGGTCTCTCTGGTTCCAGGGCCAGAGAAGGAGAACTAGGGCAAGTGGCTGTGAGACCCTAGAGACCAGCGAAGGG
AGAAGTTGGGAAGCTACGTTCTGTTGGCCACCAGACTTGCAATTCAGCCTCTGTATAATGCTCTGCCCTCCCTC
CCCCGAAGTTCTCTGTGGTGATGACCGCTCTCCCTGCCCTCCCCGCTTCCTGACCTCTGAAGAGGTTGGGAAG
TGACCATTTGGATGTCTGGGCCCTGCCAAGGCGACAGGGAGGGTCAGAGGGAGGCCGGCTGCTTCTGCCCCCCAC
CCTTTCCCCGGGCTGCTGTGCTGCTTTTGTGCCAAGGTTAGCCAGTCCCCCTGTTGTGTTCCATGTGCTTTCA
CCTCTGCCTCATCTTTCTCCCTGCCCTGCCCGCCACCTCCCCAAAGAATTGAAACGTCAGCTCAGGATATGGG
GCCAATCTCTGTGAGTCCAGCATGTACCTGTCTCTCCCTAGTGTCCCTTCAGCCTGGGCTGACCAGTGCCCGCT
CTGGGCTTGACCAGTTCCCAATCTCGTCCTCTGTCCCCAACTTCTTAAGCACAAATTGGGCTTCTTCCATCTCCAG
GTTTTCTGCCATTCTTAACCAAGGCTGCCTCTTCCAACAGGGCGGGAATCAGACCTACTCCCCTAGGTCACAACT
CTGGGAAGGATACAGAGCCCCCACCCTTCACTGAGTTCTCTGGATTTGTTCTCAGTGCCTTAGCAACGAAAACCT
GTGCTTGTGTGTGTGTGGCGGCGGGGAGGGAGGATCCTGTTTCCACCTCCTTCTCCTCCCCTGTACTCCCCAGT
GCCTTCCTTGTCTGTTGGTGGAGCTGGGGTTTCTCTCCTCCCAGTCCCACAACACTGCCAAAAATCTGTGTATGTG
CCATTGGGTGGGGCAGCCCCAAGCCTCCTGGGGAGGCAGGGCAAAAACAGGTGCCCTCATCGTGGTCTGTGCCAT
GTCCCGTCTCTATGGTGGTTGAGGAGAAAGGCGGGGAAGCTTCCTCAGCCTTGAGATATGTGTGGCATTCTACTA
GCCAGAGCTCTGAAAGGCAGTGCTGTCTGTTTCTTGTACTGGGACCAAAGTAAAAATCCAAGCACATTCCCCTTG
CAGTTAGGGGAGGCCCTACTGCCTTCTCAAAGCAGAGAGGCAGCTTATCAAACCTCAGCCCAAACTCTGTTTACA
TGGGTGGGGAGATGGAGCAGGGAAGTACAGAGTGGGATGGTCAGGACCTGGGCCATTGCAACCAAAATGGGGACT
TCCTGGGTAGGGAGGTCACCTCCTTACTCACTGAGCTAGGATTAGGGAGGGTTATTGCCCCAACCATTTGCAATG
GGAGGTGGAGGGACAGGCTCAGCCTCCTCATTGTCTAAATGAGGCCTAAATGTGTGAAGTGCGATTTCTGCTTTT
GTGTACCCCAACCCCAATTACCACAGCTGCCTTTGTGTGTTTGTGTCAATAAAAAAGCCAAACCCTGGGAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1286

MSDEREVAEAAATGEDASSPPPKTEAASDPQHFAASEGAAAAAASPPLLRLCLVLTGFGGYDKVKLQSRPAAPPAPG
PGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAGGEGVSDRKAGDRVMVLNRSGMWQEEVTV
SVQTFLLIPEAMTFEEAAALLVNYITAYMVLFDGFLQPGHSLVHMAAGGVGMAAVQLCRTVENVTVFGTASASK
HEALKENGVTHTPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMA
LARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHKPHIDSVWPFEEKVADAMKQMQ
EKKNVGKVLVPGPEKEN

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FIGURE 1287

CGCTGTCGCCGCCAGTAGCAGCCTTCGCCAGCAGCGCCGCGGCGGAACCGGGCGCAGGGGAGCGAGCCCGGCCCC
GCCAGCCCAGCCCAGCCCAGCCCTACTCCCTCCCCACGCCAGGGCAGCAGCCGTTGCTCAGAGAGAAGGTGGAGG
AAGAAATCCAGACCCTAGCACGCGCGCACCATCATGGACCATTATGATTCTCAGCAAACCAACGATTACATGCAG
CCAGAAGAGGACTGGGACCGGGACCTGCTCCTGGACCCGGCCTGGGAGAAGCAGCAGAGAAAGACATTCACGGCA
TGGTGTAACCTCCCACCTCCGGAAGGCGGGGACACAGATCGAGAACATCGAAGAGGACTTCCGGGATGGCCTGAAG
CTCATGCTGCTGCTGGAGGTTCATCTCAGGTGAACGCTTGGCCAAGCCAGAGCGAGGCAAGATGAGAGTGCACAAG
ATCTCCAACGTCAACAAGGCCCTGGATTTTCATAGCCAGCAAAGGCGTCAAACCTGGTGTCCATCGGAGCCGAAGAA
ATCGTGGATGGGAATGTGAAGATGACCCTGGGCATGATCTGGACCATCATCCTGCGCTTTGCCATCCAGGACATC
TCCGTGGAAGAGACTTCAGCCAAGGAAGGGCTGCTCCTGTGGTGTGAGAGAAAGACAGCCCTTACAAAAATGTC
AACATCCAGAACTTCCACATAAGCTGGAAGGATGGCCTCGGCTTCTGTGCTTTGATCCACCGACACCGGCCCGAG
CTGATTGACTACGGGAAGCTGCGGAAGGATGATCCACTCACAAATCTGAATACGGCTTTTGACGTGGCAGAGAAG
TACCTGGACATCCCCAAGATGCTGGATGCCGAAGACATCGTTGGAACCTGCCCAGCCGATGAGAAAGCCATCATG
ACTTACGTGTCTAGCTTCTACCACGCCTTCTCTGGAGCCCAGAAGGCGGAGACAGCAGCCAATCGCATCTGCAAG
GTGTTGGCCGTCAACCAGGAGAACGAGCAGCTTATGGAAGACTACGAGAAGCTGGCCAGTGATCTGTTGGAGTGG
ATCCGCCGCACAATCCCGTGGCTGGAGAACC GGCTGCCCGAGAACACCATGCATGCCATGCAACAGAAGCTGGAG
GACTTCCGGGACTACCGGCGCCTGCACAAGCCGCCCAAGGTGCAGGAGAAGTGCCAGCTGGAGATCAACTTCAAC
ACGCTGCAGACCAAGCTGCGGCTCAGCAACCGGCCTGCCTTCATGCCCTCTGAGGGCAGGATGGTCTCGGACATC
AACAATGCCTGGGGCTGCCTGGAGCAGGTGGAGAAGGGCTATGAGGAGTGGTTGCTGAATGAGATCCGGAGGCTG
GAGCGACTGGACCACCTGGCAGAGAAGTTCCGGCAGAAGGCCTCCATCCACGAGGCCTGGACTGACGGCAAAGAG
GCCATGCTGCGACAGAAGGACTATGAGACCGCCACCCTCTCGGAGATCAAGGCCCTGCTCAAGAAGCATGAGGCC
TTCGAGAGTGACCTGGCTGCCACCAGGACCGTGTGGAGCAGATTGCCGCCATCGCACAGGAGCTCAATGAGCTG
GACTATTATGACTCACCCAGTGTCAACGCCCGTTGCCAAAAGATCTGTGACCAGTGGGACAATCTGGGGGCCCTA
ACTCAGAAGCGAAGGGGAAGCTCTGGAGCGGACCGAGAAAAGTCTGGAGACCATTGACCAGCTGTACTTGGAGTAT
GCCAAGCGGGCTGCACCCCTTCAACAAGTGGATGGAGGGGGCCATGGAGGACCTGCAGGACACCTTCATTGTGCAC
ACCATTGAGGAGATCCAGGGACTGACCACAGCCCATGAGCAGTTCAGGCCACCCTCCCTGATGCCGACAAGGAG
CGCCTGGCCATCCTGGGCATCCACAATGAGGTGTCCAAGATTGTCCAGACCTACCACGTCAATATGGCGGGCACC
AACCCTACACAACCATCACGCCTCAGGAGATCAATGGCAAATGGGACCACGTGCGGCAGCTGGTGCCTCGGAGG
GACCAAGCTCTGACGGAGGAGCATGCCGACAGCAGCACAATGAGAGGTACGCAAGCAGTTTGGAGCCCAGGCC
AATGTTCATCGGGCCCTGGATCCAGACCAAGATGGAGGAGATCGGGAGGATCTCCATTGAGATGCATGGGACCCTG
GAGGACCAGCTCAGCCACCTGCGGCAGTATGAGAAGAGCATCGTCAACTACAAGCCAAAGATTGATCAGCTGGAG
GGCGACCACAGCTCATCCAGGAGGCGCTCATCTTCGACAACAAGCACACCAACTACACCATGGAGCACATCCGT
GTGGGCTGGGAGCAGCTGCTCACCACCATCGCCAGGACCATCAATGAGGTAGAGAACCAGATCCTGACCCGGGAT
GCCAAGGGCATCAGCCAGGAGCAGATGAATGAGTTCCGGGCCTCCTTCAACCACTTTGACCGGGATCACTCCGGC
ACACTGGGTCCCCGAGGAGTTCAAAGCCTGCCTCATCAGCTTGGGTATGATATTGGCAACGACCCCCAGGGAGAA
GCAGAATTTGCCCGCATCATGAGCATTGTGGACCCCAACCGCTGGGGGTAGTGACATTCCAGGCCTTCATTGAC
TTCATGTCCCGCGAGACAGCCGACACAGATACAGCAGACCAAGTCATGGCTTCCTTCAAGATCCTGGCTGGGGAC
AAGAACTACATTACCATGGACGAGCTGCGCCGCGAGCTGCCACCCGACCAGGCTGAGTACTGCATCGCGCGGATG
GCCCCCTACACCGGCCCGGACTCCGTGCCAGGTGCTCTGGACTACATGTCCTTCTCCACGGCGCTGTACGGCGAG
AGTGACCTCTAAATCCACCCCGCCCGGCCCTCGTCTTGTGCGCCGTGCCCTGCCTTGCACCTCCGCCGTGCCC
CATCTCCTGCCTGGGTTCGGTTTCAGCTCCAGCCTCCACCCGGGTGAGCTGGGGCCCACGTGGCATCGATCCTC
CCTGCCCCGGAAGTGACAGTTTACAAAATTATTTTCTGCAAAAAAGAAAAAAGTTACGTTAAAAACCAAAAA
CTACATATTTTATTATAGAAAAAGTATTTTTTCTCCACCAGACAAATGGAAAAAAGAGGAAAGATTAACTATTT
GCACCGAAATGTCTTGTTTTGTGCGACATAGGAAAATAACCAAGCACAAAGTTATATTCCATCCTTTTTACTGA
TTTTTTTTTCTTCTATCTGTTCCATCTGCTGTATTCTTTCTCAATCTCATGTCCATTTTGGTGTGGGAGTCGG
GGTAGGGGGTACTCTTGTCAAAGGCACATTGGTGCCTGTGTGTTTGCTAGCTCACTTGTCCATGAAAATATTTT
ATGATATTAAAGAAAATCTTTTG

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FIGURE 1288

MDHYDSQQTNDYMQPEEDWDRDLLLDPAAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRDGLKMLLLEVISGE
RLAKPERGKMRVHKISNVNKALDFIASKGVKLVSIGAEIIVDGNVKMTLGMIWTIILRFQIDISVEETSAKEGL
LLWCQRKTAPYKNVNIQNFHISWKDGLGFCALIHRRPELIDYGKLRKDDPLTNLNTAFDVAEKYLDIPKMLDAE
DIVGTARPDEKAIMTYVSSFYHAFSGAQKAETAANRICKVLAVNQENEQLMEDYEKLASDLLEWIRRTIPWLENR
VPENTMHAMQQKLEDFRDYRRLHKPPKVQEKQLEINFNTLQTKLRLSNRPAPFMPSEGRMVSDINNAWGCLEQVE
KGYEEWLLNEIRRLERLDHLAEKFRQKASIHEAWTDGKEAMLQKDYETATLSEIKALLKKHEAFESDLAAHQDR
VEQIAAIAQELNELDYYDSPSVNARCQKICDQWDLGALTQKRREALERTEKLETTIDQLYLEYAKRAAPFNNWM
EGAMEDLQDTFIVHTIEEIQGLTTAHEQFKATLPDADKERLAILGIHNEVSKIVQTYHVNMAAGTNPYTTITPQEI
NGKWDHVRQLVPRRDQALTEEHARQQHNERLRKQFGAQANVIGPWIQTKMEEIGRISIEMHGTTLEDQLSHLRQYE
KSIYNYKPKIDQLEGDHQLIQEALIFDNKHTNYTMEHIRVGWEQLLTTIARTINEVENQILTRDAKGISQEQMNE
FRASFNFHFRDHSGLGPEEFKACLISLGYDIGNDPQGEAEFARIMSIVDPNRLGVVTFQAFIDFMSRETADTDT
ADQVMASFKILAGDKNYITMDELRRRELPPDQAEYCIARMAPYTGPDSPGALDYMSFSTALYGESDL

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FIGURE 1289

CTGCCACTGCCACCTCGCGGATCAGGAGCCAGCGTTGTTGCCCCGACGCCTCGCTGCCGGTGGGAGGAAGCGAGA
GGGAAGCCGCTTGGGCTCTTGTGCGCGCTGCTCGCCACCGCCTGGAAGAGCCGAGCCCCGGCCAGTCGGTCGCT
TGCCACCGCTCGTAGCCGTTACCCGCGGGCCGCCACAGCCGCCGGCGGGAGAGGCGCGGCCATGGCTTCTGGAG
CCGATTCAAAAGGTGATGACCTATCAACAGCCATTCTCAAACAGAAGAACCGTCCCAATCGGTTAATTGTTGATG
AAGCCATCAATGAGGACAACAGTGTGGTGTCTTGTCCCAGCCCCAAGATGGATGAATTGCAGTTGTTCCGAGGTG
ACACAGTGTGTGCTGAAAGGAAAGAAGAGACGAGAAGCTGTTTGCATCGTCCTTTCTGATGATACTTGTCTGATG
AGAAGATTCCGATGAATAGAGTTGTTCCGAATAACCTTCGTGTACGCCTAGGGGATGTCATCAGCATCCAGCCAT
GCCCTGATGTGAAGTACGGCAAACGTATCCATGTGCTGCCATTGATGACACAGTGAAGGCATTACTGGTAATC
TCTTCGAGGTATACCTTAAGCCGTACTTCCTGGAAGCGTATCGACCCATCCGGAAGGAGACATTTTTCTTGTCC
GTGGTGGGATGCGTGTGTGGAGTTCAAAGTGGTGGAAACAGATCCTAGCCCTTATTGCATTGTTGCTCCAGACA
CAGTGATCCACTGCGAAGGGGAGCCTATCAAACGAGAGGATGAGGAAGAGTCCTTGAATGAAGTAGGGTATGATG
ACATTGGTGGCTGCAGGAAGCAGCTAGCTCAGATCAAAGAGATGGTGGAACTGCCCTGAGACATCCTGCCCTCT
TTAAGGCAATTGGTGTGAAGCCTCCTAGAGGAATCCTGCTTTACGGACCTCCTGGAACAGGAAAGACCCTGATTG
CTCGAGCTGTAGCAAATGAGACTGGAGCCTTCTTCTTCTTGATCAATGGTCTGAGATCATGAGCAAATTGGCTG
GTGAGTCTGAGAGCAACCTTCGTAAAGCCTTTGAGGAGGCTGAGAAGAATGCTCCTGCCATCATCTTCATTGATG
AGCTAGATGCCATCGCTCCCAAAGAGAGAAAACTCATGGCGAGGTGGAGCGGCGCATTGTATCACAGTTGTTGA
CCCTCATGGATGGCTAAAGCAGAGGGCACATGTGATTGTTATGGCAGCAACCAACAGACCCAACAGCATTGACC
CAGCTCTACGGCGATTTGGTGCCTTTGACAGGGAGGTAGATATTGGAATCCTGATGCTACAGGACGCTTAGAGA
TTCTTCAGATCCATACCAAGAACATGAAGCTGGCAGATGATGTGGACCTGGAACAGGTAGCCAATGAGACTCACG
GGCATGTGGGTGCTGACTTAGCAGCCCTGTGCTCAGAGGCTGCTCTGCAAGCCATCCGCAAGAAGATGGATCTCA
TTGACCTAGAGGATGAGACCATTGATGCCGAGGTGATGAACCTCTTAGCAGTTACTATGGATGACTTCCGGTGGG
CCTTGAGCCAGAGTAACCCATCAGCACTGCGGGAAAACCGTGGTAGAGGTGCCACAGGTAACCTGGGAAGACATCG
GGGGCCTAGAGGATGTCAAACGTGAGCTACAGGAGCTGGTCCAGTATCCTGTGGAGCACCCAGACAAATTCTGA
AGTTTGGCATGACACCTTCCAAGGGAGTTCTGTTCTATGGACCTCCTGGCTGTGGGAAAACCTTTGTTGGCCAAAG
CCATTGCTAATGAATGCCAGGCCAACTTCATCTCCATCAAGGGTCTGAGCTGCTCACCATGTGGTTTGGGGAGT
CTGAGGCCAATGTGAGAGAAATCTTTGACAAGGCCCCGCAAGCTGCCCCCTGTGTGCTATTCTTTGATGAGCTGG
ATTGATTGCCAAGGCTCGTGGAGGTAAACATTGGAGATGGTGGTGGGGCTGCTGACCGAGTCATCAACCAGATCC
TGACAGAAATGGATGGCATGTCCACAAAAAAAATGTGTTTCATCATTGGCGCTACCAACCGGCCTGACATCATTG
ATCCTGCCATCCTCAGACCTGGCCGTCTTGATCAGCTCATCTACATCCCACTTCCTGATGAGAAGTCCCGTGTG
CCATCCTCAAGGCTAACCTGCGCAAGTCCCCAGTTGCCAAGGATGTGGACTTGGAGTTCCTGGCTAAAAATGACTA
ATGGCTTCTCTGGAGCTGACCTGACAGAGATTGCCAGCGTGCTTGCAAGCTGGCCATCCGTGAATCCATCGAGA
GTGAGATTAGGCGAGAACGAGAGAGGCAGACAAACCCATCAGCCATGGAGGTAGAAGAGGATGATCCAGTGCCTG
AGATCCGTCGAGATCACTTTGAAGAAGCCATGCGCTTTGCGCGCCGTTCTGTGTCAGTGACAATGACATTCGGAAGT
ATGAGATGTTTGCCAGACCCTTCAGCAGAGTCGGGGCTTTGGCAGCTTCAGATTCCCTTCAGGGAACCAGGGTG
GAGCTGGCCCCAGTCAGGGCAGTGGAGGCGGCACAGGTGGCAGTGATACACAGAAGACAATGATGATGACCTGT
ATGGCTTAAGTGGTGGTGGCCAGCGTGCAGTGAGCTGGCCTGCCTGGACCTTGTTCCCTGGGGGTGGGGCGCTTGC
CCAGGAGAGGGACCAGGGGTGCGCCACAGCCTGCTCCATTCTCCAGTCTGAACAGTTCAGCTACAGTCTGACTC
TGGACAGGGGGTTTCTGTTGCAAAAATACAAAACAAAAGCGATAAAATAAAAGCGATTTTCATTGTTAGGCGGA
GAGTGAATTACCAACAGGGAATTGGGCCTTGGGCCTATGCCATTTCTGTTGTAGTTTGGGGCAGTGCAGGGGACC
TGTGTGGGGTGTGAACCAAGGCACTACTGCCACCTGCCACAGTAAAGCATCTGCACTTGACTCAATGCTGCCCCGA
GCCCTCCCTTCCCCCTATCCAACCTGGGTAGGTGGGTAGGGGCCACAGTTGCTGGATGTTTATATAGAGAGTAGG
TTGATTTATTTTACATGCTTTTGAAGTAAATGTTGGAAAACTAATCACAGCAGTTTCTAAACCAAAAAATGACAT
GTTGTAAAAGGACAATAAACGTTGGGTCAAAATGGAAAAA

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FIGURE 1290

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDD
TCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGD
IFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPKREDEEESLNEVGYYDDIGGCRKQLAQIKEMVELPLR
HPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESSENLKAFEEAEKNAPAI
IFIDELDAIAPKREKTHGEVERRIVSQLLTLMMDGLKQRAHVIVMAATNRPNSIDPALRRFGRFDREVDIGIPDAT
GRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAAALQAIRKKMDLIDLEDETIDA EVMNSLAVTMD
DFRWALSQSNPSALRETVVEVPQVTWEDIGGLEEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPFGCGKT
LLAKAIANECQANFISIKGPELLTMWFGSEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRV
INQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFL
AKMTNGFSGADLTEICQRACKLAIRESEIEIRRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDN
DIRKYEMFAQTLQQSRGFGSFRFPSGNQGGAGFSQSGGGTGGSVYTEDNDDDLYG

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FIGURE 1291

CGGCGCCGCGAGGGGATTGAGGGGTTGACTGAGCGTTGCGAGCCTTAGCTTTCTCCCGAACGCCAGCGCTGAGGAC
ACGATGTCGCGGCTCTCCCGCTCACTGCTTTGGGCCGCCACCTGCCTGGGCGTGCTCTGCGTGCTGTCCGCGGAC
AAGAACACGACCCAGCACCCGAACGTGACGACTTTAGCGCCCATCTCCAACGTAACCTCGGCGCCGGTGACGTCC
CTCCCGCTGGTCACCACTCCGGCACCAGAAACCTGTGAAGTTCGAAACAGCTGCGTTTTCTGTTTTAATGTTAGC
GTTGTTAATACTACCTGCTTTTGGATAGAATGTAAAGATGAGAGCTATTGTTACATAACTCAACAGTTAGTGAT
TGTCAGTGGGGAACACGACAGACTTCTGTTCCGCTAAACCCACAGTTCAGCCCTCCCCTTCTACAACTTCCAAG
ACAGTTACTACATCAGGTACAACAATAACACTGTGACTCCAACCTCACAACCTGTGCGAAAGTCTACCTTTGAT
GCAGCCAGTTTCATTGGAGGAATTGTCCTGGTCTTGGGTGTGCAGGCTGTAATTTTCTTTCTTTATAAAATCTGC
AAATCTAAAGAACGAAATTACCACACTCTGTAAACAGACCCATTGAATTAATAAGGACTGGTGATTCAATTTGTGT
AACTCACTGAAGCCAAAATACTATCTTTTAAGATGTCCACATGGAAGACGCTATTCCAGGATCTTTAAATTTCC
ATGGATGCATATAGGATGTTTGGGAGCATCATCCGTGAAGAAAAATCAATTAATCATTGTGTTCAACAGGAAT
ATTTAAATATTTCTGCATGAATCCTGTGGCTGTCTTATTTTAAATAGCTGCTGCTGTGGGATTATATTTTTTTTC
CTTAACATGCCAAATATAACTTTCTGAAAGTGATGGAAAATGTTGTCTTGTGCAGACAACATCATGGCTCTTGGC
AGTTTAAATTTAGTAATTTTAAATTTAGTGAACAGAATTGAGAAGAAGCTGCCAAATGAGAATCAATTAGGTGGAT
TTTTGGCTGTCAATTTCAAAGTGGAATAAATTTATTAATTTAGTAGTACTAAATGGTATCCTTAGATTAAAATTT
TGTGCTTGATAACAGCTGTTTTTTCTACATTAGAAATAAGATGCCACACAAGGAACATACATTCCAGATTTAAAGA
AATGAAAGGATACCATTAGTGTGTATAACAGATTATTGTTTCATACTTGTAAGCATCTTATGTCAATTGAGAATAT
AAAGAACAGTGCCTTAGAAGACAGTGAAAGGTAAGCTCTAGCTTAATGTCTATGATTTGTTCTTTGACATTAAGG
AAGGTAAGGATTGGTCAGAGGATGTAACCTTGATGTGAGCAGTAGTAAACCTGTTTTAGATATCATACTGTTAATA
TTTTATTGAAAATTTATTTTCAGAGCGGAGAACTTAAGCTAAAGTCTGTTATACAGAATTGAAAACCTTCGTATC
TTGAACCTCCCAACATTTTTCTTATGGCTGTTGAAAAGTATAGAGCTAAATTGATTTAATTACACTTTCCCTTGT
ACTTTAAAAAAAAGTATGCTAGCACTATTGTACCTTGAAAGGATTTCCACCAGACTGTCTTGAGTAGTGACTTCT
TTGGTGAGGCAAGAAGGATATACATTATTTTAGAATCATTTACTATTTAAATGAGACAATCATATTATTTTAGAA
TCATTTATTTTAAATGAGACAATCATTTTAAGTTTTAAGATAACAGAAGTGACCAATGTAATTTACAACACCTA
AGGATTTTTTGGTTGATCAGGTTACTGTAGATTTTTACTGATTGTCTGGATGAATAGACTGTGCTTTTTCTTTT
TCTCTCCCTTCCTTCTTGGTTTTCCCATAGTATAATAAGCATGCATACTTTAAGTCTATAGTTTTCTCCTTTAGA
GGGTCGTCTTCAGTTTTAGAGGTTTACTTCTCCCTTGCCCTTGACTCATTGGACTAGTGCAGAGGCTTTAAGTAG
TTTAAATGGGCTTTTGCTTTTCTAGGTCATTAACGTTTTTTATTTAGTTTCTTTAGCCAATAGTGGCTGAGTTT
CGCACTTGATTTTCAATATTTTATAGTAAGAAATGACAACTGCTTTGTTTCATTTCATAAACAACTCTGCATT
TAGATAACTATTAAAGGTTGTTAAGATGAAGATTTACTGTTTCTTTGTTTACTCGTTGGTACAGCTGTTGTTTTA
CTTGACATTTGTACATATACTTAATGTTTTCAAGTGCCTTAATTGTTTAAATCTCTGGCTTCAAAGTTTCTTG
GGGAAAGGTCGTTTTACCTCACATTTTTGTTTCCATTAGTAATATTCTAGGTACCTCACAAAATGTATTATGGT
GCCATGGCTGTTAGTTTTTAGTGAGTGCTGTAGGATTAATTCGAAAATAGGCAGAATTCATTCTCCCAAGGTG
GCAAAAATTAGCTATACTGATGTAATTGTCATTTACCTGGGTATGAATTCCTGACACACATTCATGTCAACATA
TGTAGCAAATTTTGTGAAAACATAACAATTTGAAGCTTCTGTAATTTTGAGCACTGCTCTAACAACAAGCATAAT
ATAAAATTAGTTAGATTTTGCAAGTCTACAAATGAGCTCTTGCAACAGAACTCACAGCCTTTTTACTTTTTTCCC
CTAACTTTAGCAATGTAGTATCTTGAGCCATTAATTTTTGGGTTTTTTTTAAATCCAGAAGGTATATAGAAACCT
TTTCAGATTTTTCATCTGATTTGTTCTTGAGATGTTCTTCTATCAAATACCTTATTTTACCTTACAGATATTTG
TTGCACAGGCAGATACTGCTGTATTTAGACATTTCTATTTTCAGTTTCATTAATACTGCAAAACCAATCTGTATCA
TGTACCAAACCTGACTTAAAATAAATCTACATGTTTATTGAATT

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FIGURE 1292

MSRLSRSLWAATCLGVLCVLSADKNTTQHPNVTTLAPISNVTSAPVTS
VNTTCFWIECKDESYCSHNSTVSDCQVGNTTDFCSAKPTVQSPSTTSKTVTTSGTTNNTVTPISQPV
ASFIGGIVLVLGVAIVFFLYKFCKSKERNYHTL

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FIGURE 1293A

CTGAACTAGTTGCCAGTGATCTTGAAACGTGACAGTAACCAAGAGATAAATAGGTGACAATGACAGGAAAATTAG
ATGTAGTAAAAGAGAGTGTTTGAGAGCAGAAGCTATGGCAACTAAAGACTGGATTGGAATCCTTCCTAGCTTGGT
GACATGAGCAAATTACTTGATTTAAGTGAGCATTTCCTCATCTGTACAGTGGAGATAACGATAAATTGTGCCTGCT
AAGAAGAATTGCTGTGAAGATTAGTGAAATAATGCATGTAAACATTGGGTACAGTATGTGACACATAGTACAAA
TAGTTTGCTAGGAAGATTGTTATTATTCTTCACTTGTGATATTGTGAAGTTTTTCATACAGCAAATTGGACATCAT
GAGATGGATTGATTAAATAAATAGATTTGAACCTCAAGGACTGGTAGTGTTCTTGCTTTGGAAAAGAAGAACTTG
GTTTATCCTAATAATAGTAGGATAATAATGGTGAAGTGATAGGTACAAGTAATAGTGTTTATGATGCGCTGGTGA
TGATAGGAAAAGAAAGCCATTATATGGGCAAGAGCTAGAAGTAATAAAATGGTGCATTTTTCAGTGATGTTTGGC
CTATGTAGCTATTCTCTGATAACTATAAAAATCCTTATTATTGAAGATTCTTCAGGAAAAAAAACCCCTTAGTCT
GAACTTTAGCACCAATCCCCCTTGCCCCCATTGAAATACGTATTTTTTAAACATGGCTTTTGATAATGTGAGG
GTTTTTTCCTTTTTTGCGATTTAGCAGTGCTGATTGTGTATTGCAGTAGTTGTGAGAGCATTAGAAGCAGCAGTCG
ATAGGAGGATGGAAGGTCTGGATGCCGCCCTTGGGGAGTTAGGAGATTGGCAGACTTACCCTGTACCACTCTAGCC
CTACTCCTTTGCCAAGACAGAAACACACTGAGATGGATAGGAGAATATGAGCAGTTGATAGGAAAGTTCTCAGT
GGAGTCAGGATTTAGGTTAGGCCAGGAGATTGAGAATATAACAGTTTGTGTATGATGAAATGGCATATTTTCACAG
AATGCAGTAAAAGCAGGTAGGGTACAAGTGCAGCAACAGGAAGATGCTTTTTCTTCATTACAGCAAACTTATTT
GAGAGCTTACCATGTGCTAGGCACATACAAAGATAAATAAGATGCCCTTGATGATCCTCTATTTAAAGGAGACAT
GTAAACAGGTAACTTAGAGTAGAGATGGTGAATATGTGAACCTGAGGAAAGGAAGAAATAGATTAAATTATCTG
GAGAGAGAGGAAAAGTCAGCAGAATGGGGACGAGAATCTTTCGGAGCTCAGTGTTCTGATAGGAGTTATTTCCCTT
GGGCATAGGTTCCAAGTATTTTTCTAATATACCATAGAAGCCAGGAAAACCTTTCTTCTGTTATCTCAAATGATTT
AATTACTGACTTGAGTTTGTGTTGTCTCCTTAGACTTGTGCACC**ATGG**ACAATTTTGCTGAGGGAGATTTCACTG
TGGCGGATTATGCCTTGTTAGAAGATTGCCCTCACGTGGATGATTGTGTCTTTGCTGCTGAATTTATGAGCAATG
ATTATGTTCTGTGACTCAGCTTTACTGTGATGGGGTGGGTGTGCAATATAAAGATTATATCCAAAGTGAGAGGA
ATTTGGAATTTGACATCTGCAGTATATGGTGTAGTAAACCAATTTCTGTCTGCAAGATTATTGCGATGCCATTA
AAATAAACATCTTCTGGCCACTTCTGTTTCAACATCAAAACAGTTCCGTAATATCACGATTGCATCCCTGTGTGG
ACGCCAACCAATTCACGTGCTTCTGAGATAAATTTGAAGAACTACAACATCTTGAGTTGATGGAAGATATTGTGG
ATTTGGCAAAGAAAGTTGCTAATGATTCATTCTTATTGGAGGCTTATTGAGAATTGGTTGTAAATAGAAAATA
AAATCTTGGCAATGGAAGAAGCTCTGAATTGGATAAAATATGCAGGCGATGTAACAATTCTAACTAAATTAGGAT
CAATTGACAAATTGTTGGCCTATGTTAAGTATTTTCTTACTGAATACAAGTACCACATAACTAAAATTGTAATGG
AAGACTGCAATTTGCTTGAAGAACTTAAACTCAAAGTTGTATGGATTGTATAGAGGAAGGAGAACTAATGAAAA
TGAAAGGAAATGAAGAGTTTTTCAAAGAAAGATTGATATAGCTATTATCTATTACACCAGAGCCATTGAATATA
GACCTGAAAACCTACCTTCTTTATGGTAACCGAGCTCTTGTCTTCTCGTACTGGACAGTTTAGAAATGCACTCG
GTGATGGAAGAGAGCCACTATTCTGAAGAACACTTGCCAAAGGGTCATTATCGTTATTGTGATGCTCTTTCTA
TGCTGGGGGAATATGACTGGGCCCTGCAAGCAAACATAAAAGCTCAAAACCTCTGTAAAAATGACCCTGAGGGAA
TCAAGGATCTAATTCAGCAGCATGTAAAGTTACAAAAACAAATAGAAGACCTACAAGGTGCAACAGCAAATAAGG
ATCCAATTAAAGCCTTTTATGAAAACAGGGCCTACACACCTAGGAGTTTATCAGCACCTATATTTACTACTTCAC
TTAACTTTGTGGAGAAGGAAAGAGATTTAGAAAAATTAATCACGAAATGGCCAACGGTGGTAATCAGAATCTAA
AGGTGGCGGATGAGGCGTTGAAGGTAGATGATTGTGACTGTCATCCTGAATTTTCACCACCATCAAGTCAGCCTC
CAAAACATAAAGGAAAACAAAAATCTCGAAACAATGAATCAGAAAAGTTCAGTTCTAGTTCACCATTGACTTTAC
CAGCAGATTTGAAGAACATCTTGAGAAACAGTTTTCTAAATCTTCCAGAGCTGCACACCAGGATTTTGCTAATA
TAATGAAAATGCTGAGAAGCTTAATTCAAGATGGCTATATGGCCTTATTGGAGCAGCGTTGCCGCAGCGCTGCAC
AGGCCTTTACAGAGTTGCTGAACGGTTTAGATCCTCAAAAAATAAAGCAATTGAACCTGGCCATGATTAACCTATG
TTTTGGTCTCTATGGACTTGCCATTTCTCTCCTTGGAATAGGACAGCCTGAGGAATTATCTGAAGCCGAAAAACC
AGTTTAAAGAGGATTATTGAACACTACCCACAGTGAGGGCCTTGATTGCTTGGCCTACTGTGGAATTGGAAAAGTGT
ATTTGAAAAAAAACAGATTTCTAGAAGCTCTCAATCACTTTGAGAAAGCAAGAACCTTGATTTATCGTCTTCCCTG
GAGTGTTAACTTGGCCCACGAGTAATGTGATTATTGAAGAGTCTCAGCCACAAAAAATAAAGATGCTGTTAGAGA
AATTTGTTGAAGAATGCAAGTTCCTCCAGTGCCAGATGCCATTTGTTGCTATCAGAAGTGCCATGGATATTCTA
AGATCCAGATATACATACTGATCCAGACTTTAAGGGTTTATACGCATCAGCTGTTGCCAGTACTGTAAAAATAG
AATTTACATGAATTGCTGGAAGAAGTTAAAAACTACAACCTTTAATGATAAAATTGACAAGGATTTTCTACAAG

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FIGURE 1293B

GAATATGTCTTACCCCTGACTGTGAAGGTGTCATTTCTAAGATTATCATCTTCAGCAGTGGTGGTGAAGTTAAAT
GTGAATTTGAACACAAGGTCATAAAAGAAAAGGTTCTCCAGACCTATTCTGAAACAGAAATGTTCTAGCCTAG
AGAACTAAGACTGAAAGAAGACAAAAAATTGAAGAGAAAGATCCAAAAAAGAAGCAAAAAAGTTAGCACAAAG
AAAGAATGGAGGAGGACTTAAGAGAAAAGTAATCCACCCAAAAATGAAGAGCAGAAAGAAACTGTAGACAATGTTT
AGCGTTGTCACTTCCTTGATGACAGAATTCTACAGTGTATAAAGCAGTATGCTGACAAGATTAAATCCGGCATA
AGAATACAGCCATGCTTCTCAAAGAATTGCTTTCTTGAAAAGTTTTGAGCACAGAAGACTATACAACCTGTTTT
CTAGCAGAAAATTTCTAAATGAAGCAGTGGACTATGTTATTGCGCCACTTGATTCAAGAAAATAACAGAGTAAAGA
CAAGAATATTTCTGCATGTTTTGAGTGAGCTTAAAGAAGTGAGGCCAAATTAGCCGCCTGGATCCAAAACTTA
ATAGCTTTGGCTTAGATGCCACAGGAACCTTTCTTTCTCGTTATGGAGCATCTCTTAAACTGCTTGATTTTAGTA
TCATGACTTTCTCTGGAATGAGAAATATGGTCACAACTAGACTCTATAGAAGGAAAGCAACTTGATTATTTCT
CTGAGCCAGCATCATTGAAGGAAGCCCGTTGTTAATATGGCTGCTAGAAGAACACAGAGACAAGTTCCCAGCAT
TGCATAGTGCTTTAGATGAATTTCTTGATATAATGGACAGCCGCTGTACTGTGTTAAGGAAACAAGATAGTGGTG
AAGCACCGTTTAGTTCAACCAAGGTGAAAAACAAAAGCAAGAAAAAGAAGCCAAAGGATTCAAAGCCTATGTTAG
TTGGGTCTGGAACAACCTTCAGTAACTTCAAATAATGAGATCATCACTTCAAGTGAAGACCATAGCAATCGAAATT
CAGATTCTGCAGGCCCATTTGCAGTGCCTGACCATCTTCGGCAAGATGTAGAAGAATTCGAAGCTCTCTATGACC
AACACAGTAACGAATATGTTGTCCGCAATAAGAAGCTATGGGACATGAACCCAAAACAAAAATGTTCAACTCTAT
ATGATTACTTCTCTCAGTTTTTGGAGGAACATGGTCCCTTGACATGAGTAACAAGATGTTCTCTGCAGAATATG
AGTTTTTCCCAGAAGAACTCGACAGATACTAGAAAAAGCAGGAGGTTTTAAACCTTTTCTCTTGGGATGCCCTC
GTTTTGTTGTGATTGACAACCTGTATTGCACTGAAGAAGGTTGCATCACGGCTCAAGAAAAAAGGAAGAAGAAAA
ACATTAAAAACAAAAGTAGAAGAAATTTCAAAGCAGGGGAGTATGTACGAGTTAACTACAACCTGAATCCAGCTG
CTAGGGAATTTAAACCAGATGTAAAGTCTAAACCAGTGTGAGATTCATCTTCAGCACCAGCTTTTGAAAATGTGA
AACCCAAACCTGTGTCTGCAAATTTCCCCAAGCCAGCTTGTGAAGATGTGAAGGCCAAACCAGTATCCGACAATT
CTTCTAGACAAGTTTCTGAGGATGGGCAACCCAAAGGGGTCTCTTCTAATTCTCCTAAACCAGGCTCTGAGGATG
CAAATTACAAGCGAGTCTCCTGTAATTTCCCCAAACCGGTTCTTGAGGATGTGAAACCAACTTATTGGGCTCAAT
CCCATTGTGTCACAGGATACTGTACGTATCTTCTTTCCAGAGATTTGATATCACCCAGACACCGCCAGCATACA
TAAACGTGTTACCAGTTTGCCCCAGTACACCAGCATATATACACCCTTGCCAGCCTTTCTCCTGAATATCAGC
TACCAAGATCAGTACCAGTGGTGCCGTCTTTTGTAGCCAATGACAGAGCAGATAAAAATGCTGCTGCCTATTTTG
AGGGTCATCATTTGAATGCTGAGAATGTTGCTGGTACCAGATTGCCTCTGAAACACAGATCCTTGAGGGCTCTT
TGGAATATCTGTAAAGTCACACTGCAGCACAGGTGATGCTCATACAGTCTGAGTGAGTCTAACAGAAATGATG
AGCACTGTGGAATTTCTAACAACAAATGTGAAGTAATTCAGAAAGCACCAGTGCAGTAACAACATTCCACACG
TGCAGATGGTTGCCATACAGGTATCTTGGAACATAATACACCAAGAAGTCAATACTGAGCCATATAATCCTTTTG
AGGAACGACAAGGGGAAATTTACGGATTGAAAAGGAGCACCAAGTATTACAAGACCAACTTCAAGAAGTGTATG
AAAATTATGAGCAGATAAACTTAAGGGCTTAGAAGAGACCAGGGACCTGGAAGAGAAGTTGAAAAGGCACCTAG
AAGAAAAACAAGATCTCAAAGACGGAATTAGATTGGTTCTTCAAGATTTGGAAAGAGAAATTAAGAAATGGCAAC
AGGAAAAAAGAAATCCAAGAAAGACTAAAATCACTGAAGAAGAAAAATTAAGAAAGTTTCAAATGCCAGTGAAA
TGTATACCCAGAAAAATGATGGAAAGGAAAAGGAACATGAATTACATCTGGATCAGTCCCTTGAAATCAGCAACA
CACTTACAAATGAGAAAAATGAAAATAGAAGAGTATATAAAGAAAGGGAAAGAGGATTATGAAGAGAGTCATCAGA
GAGCTGTGGCTGCAGAGGTATCCGTACTTGAAAACCTGGAAGGAGAGTGAAGTGTATAAGCTACAGATCATGGAGT
CACAAGCAGAAGCCTTTCTGAAGAAGCTGGGGCTGATTAGCCGTGATCCTGCAGCATATCCTGACATGGAGTCTG
ATATACGTTTATGGGAATTGTTTCTTTCTAATGTTACAAAAGAAATTTGAGAAAGCAAAGTCTCAGTTTGAAGAAC
AAATTAAGGCAATTAAGAAATGGTTCTCGGCTCAGTGAACCTTTCTAAAGTGCAGATTTCTGAGCTTTTCAATTCCTG
CCTGTAACACGGTTTATCCCGAGTTACTCCCTGAGTCTTCAGGCCACGATGGCCAAGGGCTTGTGACTTCTGCAA
GCGACGTGACTGGAAACCACGCAGCACTTCACAGGGATCCTAGTGTGTTCTCTGCTGGTGAATCCCCAGGGGAGG
CTCCTTCTGCGCTGTTGCCAGGGCCACCCCTGGTCAGCCTGAAGCCACTCAGCTGACAGGGCCAAAACGGGCTG
GCCAGGCAGCTCTGTGAGAACGAAGCCCTGTGGCTGATCGGAAGCAGCCTGTTCTCCAGGACGTGCTGCGCGTT
CAAGCCAGTCTCAAAAAAGCCGTTCAATAGTATTATTGAGCACCTGTGAGTGGTATTCCTCATGTTACAACAGCA
CTGAGCTTGCTGGTTTTATTAAAAAGTGCGAAGCAAAAACAAGAACTCACTCTCAGGATTGAGTATTGATGAAA
TTGTCCAAAGAGTGACAGAACACATTCTAGATGAACAGAAAAAGAAAAAGCCAAACCCAGGAAAGGACAAGAGGA

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FIGURE 1293C

CTTATGAGCCCAGCTCTGCCACCCCCGTGACCAGGTCCTCCCAGGGCTCACCTCGGTGGTTGTTGCACCATCAC
CCAAAACCAAGGGGCAGAAAGCAGAAGATGTCCCTGTGAGGATTGCACTGGGTGCAAGTTCCTGTGAAATATGCC
ACGAGGTGTTCAAATCAAAAAACGTGCGTGTGCTCAAATGTGGGCACAAGTATCACAAAGGGTGCTTTAAGCAGT
GGCTTAAAGGGCAGAGCGCTTGCCCCGGCCTGCCAGGGTCGTGATCTCCTGACAGAAGAGTCACTTCTGGAAGAG
GCTGGCCCAGTCAGAATCAGGAGCTGCCTTCCTGCTCTTCTAGGTAGTCACACTTCACTAAAGTGTCAATCCACCA
GTGTGTTGAATCCGAAGAATGACAATTTTCTACCACTGGTGTAAAAACAAACATTTGAAGACCCTTGTGCATTG
TGTGTCACAAAGCTAAATACATGGAAATCGTTAATATCGCTGATATTAAGTAATTTCCCCACTCTGAGTGAATAC
TTTGATGATTGCCAACAGTGGCTAATAAAATGACGGCTACCACACTCATGGGTCAGTGGGGCTGCGCAGGGCTCT
TTGAGGTGGGTGGCTTCTTTTGGAAAGTACTATGAACGTCTCGAAGCAGTATTCTAGTGATAAGAATTCTTAACA
TAGCCAAGCGCCCCACGTTTGTTCACGTTTGTTCCTTTTCTGTTTGAAAAACCTGTTCTGGTAGCTCCAC
AAGAGAGATGATACTGACTTTTTTAAATTTTTTACAAGAGTCTGTATTCTGATATGCCTATATTTTTCTCAAAG
ATTCTGCATTTTAAGGATGGGCATAAGCAAATATATTTTAATAATTTATAGTTAATGTTAAAAATATTGGCTGAT
TTAGACCAAAAGATTCAAATCTCCTCTTTGTGAAATCCCATCTGCATTTGATTTTTTATTATTTTATGTTCCCCC
GTTAGATTGTTTTAAGTGTTTGCTTTTCATCTTTTATAGATGTAATCTGATTTTCAAAAATCATTAACACTTTTT
AATTAGTATCGACTAAGACTTTTTCCCCCTGGAATCGAGGCTGTGTGTCCGTCATCCCAGCCCCCGGTTGGAGCC
TGCTCTTTGAACTCCGCTGCCTTCCTTAGCAGCTTCTGTCTCTTCTGTGAGTCAGTCAGCGAGTGCTTGGGATC
CGCATCCAGCCGTGCTGAGCACACAACAGGCTGTGTGTGGAAATGGCCACCACCATTCTCCTTCCCCACCCACC
ACAAAAAGAGAAGCTGTGTCTTTAGACAACCCTGAGGTATCTGTGTTACAATCGTTCTGTGTTTGATATTTGTGT
AAAGTATGCATGCAGTCTTGTACTGTGACCTAAGAACAACAACTGTAAGTGCATTAGAAACCATGAAAAAATTAGA
TATTGTTTTGTGACTTTTAGACAGTGGTAAATATAGAACCATGAATTCTGGTCACATTCCATTTCTCTCCAACAT
GAAGGATCAAAAAATGTTTTTCAATGTGTTCTTTGTTCCACTGGAACTTAGAGTCATGAGTTTATGAGCTGATT
TGGTCACCTTCCTCTGCCTTTGTTCACTGTGAGTTCTGATGTCTTAGTGACTTAGTTCTTAGAAGCTCACGCCTT
AGTTTGAAACAGATTCTCCACGGTGGTCCCCAAAACACTGTCTGCATATCCATAAGAATTGAGCGCTATGGGTGT
TAACGTGCATGAGGATCAGTTTGCAGCAGCAAGTACAAAAGGAGAAGAGGAACATCCGTTGAATGAGTGTGTTTT
GTACATAACTTCAGATACTTGTGAACATGCCTTATATTTGTCCAACAACCTGTCAGAATAAAGAACATTCTAAAT
GAG

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FIGURE 1294

MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPI
SVLQDYCDAIKINIFWPLLQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGG
LLRIGCKIENKILAMEEALNWIYAGDVTILTCLGSDNCWPMLSIFFTEYKYHITKIVMEDCNLLEELKTQSCM
DCIEEGELMKMKGNEEFSEKRFDAIIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPK
GHYRYCDALSMLGEYDWALQANIKAQKLCCKNDPEGIKDLIQQHVKLQKQIEDLQGRANKDPIKAFYENRAYTPR
SLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHGKQKSRNNESE
KFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKI
KQLNLAMINYVLVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSEGLDCLAYCGIGKVYLKKNRFLALNHFE
KARTLIYRLPGVLTWPTSNVIEESQPQKIKMLLEKFVEECKFPVPDAICCYQKCHGYSKIYIYITDPDFKGF
RISCCQYCKIEFHMNCWKKLKTTFNDKIDKDFLQIGICLTPDCEGVISKIIFSSGGEVKEFEHKKVKEKVP
PILKQKCSSLEKRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIK
QYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVE
PKLAAWIQKLNSFGLDATGTFFSRYGASLKLDFSIMTFLWNEKYGHKLDSEIGKQLDYFSEPASLKEARCLIW
LEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMVLVSGTTSVTSNNEII
TSSDHNSNRNSDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKCSTLYDYFSQFLEEHPD
MSNKMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKKKKKNIKTKVEEISKAGEY
VRVKLQLNPAAREFKPDVKSKPVSDSSAPAFENVKPKVANSPPKACEDVKAKPVSDNSSRQVSEDGQPKGVS
SNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYT
PLASLSPEYQLPRSVPVVPSFVANDRADKNAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAH
TVLSESNRNDHEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEEQGEISRIEKEHQ
VLQDQLQEVYENYEQIKLKGLEETRDLEEKLRHLEENKISKTELDWFLQDLEREIKKWQKEKKEIQERLKSLLK
KIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAEVSLENWKE
SEVYKLQIMESQAEAFLLKGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELS
KVQISELSFPACNTVHPELLPESSGHDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPE
ATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIEHLSVVFPCYNSTELAGFIKKVRSKNK
NSLSGLSIDEIVQRVTEHILDEQKKKKPNPGDKRTYEPSSATPVTRSSQGSPPVVVAPSPKTKGQKAEDVPVRI
ALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRD

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FIGURE 1295

GTTCTTGCCTGGTGTCTGGTGGTTAGTTTCTGCGACTTGTGTTGGGACTGCTGATAGGAAGATGTCTTCAGGAAAT
GCTAAAATTGGGCACCCCTGCCCCAACTTCAAAGCCACAGCTGTTATGCCAGATGGTCAGTTTAAAGATATCAGC
CTGTCTGACTACAAAGGAAAATATGTTGTGTTCTTCTTTTACCCTCTTGACTTCACCTTTGTGTGCCCCACGGAG
ATCATTGCTTTCAGTGATAGGGCAGAAGAATTTAAGAACTCAACTGCCAAGTGATTGGTGCTTCTGTGGATTCT
CACTTCTGTCTATCTAGCATGGGTCAATACACCTAAGAAACAAGGAGGACTGGGACCCATGAACATTCTTTGGTA
TCAGACCCGAAGCGCACCATTGCTCAGGATTATGGGGTCTTAAAGGCTGATGAAGGCATCTCGTTCAGGGGCCTT
TTTATCATTGATGATAAGGGTATTCTTCGGCAGATCACTGTAAATGACCTCCCTGTTGGCCGCTCTGTGGATGAG
ACTTTGAGACTAGTTCAGGCCTTCCAGTTCAGTACAAACATGGGGAAGTGTGCCCAGCTGGCTGGAAACCTGGC
AGTGATAACCATCAAGCCTGATGTCCAAAAGAGCAAAGAATATTTCTCCAAGCAGAAGTGAGCGCTGGGCTGTTTT
AGTGCCAGGCTGCGGTGGGCAGCCATGAGAACAAAACCTCTTCTGTATTTTTTTTTTCCATTAGTAAAACACAAG
ACTTCAGATTCAGCCGAATTGTGGTGTCTTACAAGGCAGGCCTTTCCTACAGGGGGTGGAGAGACCAGCCTTCT
TCCTTTGGTAGGAATGGCCTGAGTTGGCGTTGTGGGCAGGCTACTGGTTTGTATGATGTATTAGTAGAGCAACCC
ATTAATCTTTGTAGTTTGTATTAACTTGAAC TGAG

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FIGURE 1296

MSSGNAKIGH PAPNFKATAVMPDGQFKDISLS DYKGKYV VFFFYPLDFTFVCPT EIIAFSDRAEEFKKLNCQVIG
ASVDSHFCHLAWVNTPKKQGGLGPMNIPLVSDPKRTIAQDYGV LKADEGISFRGLFIIDDKGILRQITVNDLPVG
RSVDETLRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVQKSKEYFSKQK

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FIGURE 1297

GGCACGAGGGAGAGAGAACTAGTCTCGAGTTTTTTTTTTTTTTTTTGTGCAGGTAGGAAATGTCTTTATTATTGG
CCTTGAGTCATCATGTAGTGTCTGACATAGGTTACGTGTCCAGAGGATCTGCCTGGCACACGCTAGCTACCCCTG
CCCCTGGAGCAGCCCCTCTGGCCGACGCCAGGCCCTTTGTCCATCATGCCAGGGAAGCCAACCCACCATCCCAC
AAGTTCATGCTAGGGGTGCTGAGGAACAAGGCTGTCTAGGATTGGACCCTCCATCCTGGACAGGGGTCTGGGG
AGGATGAGGCTGAGGCCTGGATGATCAGTCTCTTTTGGTTTCATGATCATTATAAAAAACAGAAAAGACAAACAT
TTCACAGTCTTTAAAAAATAGAAGTCTGAGGAGAGAAGCCAGAGTCCCTGGGCCCCGGGAGGCCCTCGAGGCCTC
AGCATTCCCTGTCCCTTGAGGTCTGTCTGCAGGCCTGGCCACAGCACACGTGGCCCGTTATTGGAGCCAGGCCTA
CACCCCAGCAACCATGTCCAAGGGACCTGCAGTTGGTATTGATCTTGGCACCACCTACTCTTGTGTGGGTGTTTT
CCAGCACGGAAGTCTGAGATAATTGCCAATGATCAGGGAAACCGAACCCTCCAAGCTATGTCGCCTTTACGGA
CACTGAACGGTTGATCGGTGATGCCGCAAAGAATCAAGTTGCAATGAACCCACCAACACAGTTTTTGATGCCAA
ACGTCTGATTGGACGCAGATTTGATGATGCTGTTGTCCAGTCTGATATGAAACATTGGCCCTTTATGGTGGTGAA
TGATGCTGGCAGGCCCAAGGTCCAAGTAGAATAACAAGGGAGAGACCAAAAGCTTCTATCCAGAGGAGGTGTCTTC
TATGGTTCTGACAAAGATGAAGGAAATTGCAGAAGCCTACCTTGGGAAGACTGTTACCAATGCTGTGGTCACAGT
GCCAGCTTACTTTAATGACTCTCAGCGTCAGGCTACCAAAGATGCTGGAACCTATTGCTGGTCTCAATGTACTTAG
AATTATTAATGAGCCAAGTCTGCTGCTATTGCTTACGGCTTAGACAAAAAGGTTGGAGCAGAAAGAAACGTGCT
CATCTTTGACCTGGGAGGTGGCACTTTTGATGTGTCAATCCTCACTATTGAGGATGGAATCTTTGAGGTCAAGTC
TACAGCTGGAGACACCCACTTGGGTGGAGAAGATTTTGACAACCGAATGGTCAACCATTTTATTGCTGAGTTTAA
GCGCAAGCATAAGAAGGACATCAGTGAGAACAAGAGAGCTGTAAGACGCCTCCGTACTGCTTGTGAACGTGCTAA
GCGTACCCCTCTCTTCCAGCACCCAGGCCAGTATTGAGATCGATTCTCTCTATGAAGGAATCGACTTCTATACCTC
CATTACCCGTGCCCCGATTTGAAGAACTGAATGCTGACCTGTTCCGTGGCACCCCTGGACCCAGTAGAGAAAGCCCT
TCGAGATGCCAACTAGACAAGTCACAGATTTCATGATATTGTCCTGGTTGGTGGTTCTACTCGTATCCCCAAGAT
TCAGAAGCTTCTCCAAGACTTCTTCAATGGAAAAGAACTGAATAAGAGCATCAACCCTGATGAAGCTGTTGCTTA
TGGTGCAGCTGTCCAGGCAGCCATCTTGTCTGGAGACAACTCTGAGAATGTTCAAGATTTGCTGCTCTTGGATGT
CACTCCTCTTTCCCTTGGTATTGAAACTGCTGGTGGAGTCATGACTGTCTCATCAAGCGTAATACCACCATTCC
TACCAAGCAGACACAGACCTTCACTACCTATTCTGACAACCAGCCTGGTGTGCTTATTAGGTTTATGAAGGCGA
GCGTGCCATGACAAAGGATAACAACCTGCTTGGCAAGTTTGAAGTCAAGGCATACCTCCTGCACCCCGAGGTGT
TCCTCAGATTGAAGTCATTTTGACATTGATGCCAATGGTATACTCAATGTCTCTGCTGTGGACAAGAGTACGGG
AAAAGAGAACAAGATTACTATCACTAATGACAAGGGCCGTTTGAGCAAGGAAGACATTGAACGTATGGTCCAGGA
AGCTGAGAAGTACAAAGCTGAAGATGAGAAGCAGAGGGACAAGGTGTCATCCAAGAATTCATTGAGTCCTATGC
CTTCAACATGAAAGCAACTGTTGAAGATGAGAACTTCAAGGCAAGATTAACGATGAGGACAAACAGAAGATTCT
GGACAAGTGTAATGAAATTATCAACTGGCTTGATAAGAATCAGACTGCTGAGAAGGAAGAATTTGAACATCAACA
GAAAGAGCTGGAGAAAGTTTGCAACCCCATCATCACCAAGCTGTACCAGAGTGCAGGAGGCATGCCAGGAGGAAT
GCCTGGGGGATTTCTGTTGGTGGAGCTCCTCCCTCTGGTGGTGTCTCCTCAGGGCCCACCATTGAAGAGGTTGA
TAAGCCAACCAAGTGTAGATGTAGCATTGTTCCACACATTTAAAACATTTGAAGGACCTAAATTCGTAGCAAA
TCTGTGGCAGTTTTAAAAAGTTAAGCTGCTATAGTAAGTTACTGGGCATTCTCAATACTTGAATATGGAACATAT
GCACAGGGGAAGGAAATAACATTGCACTTTATAAACACTGTATTGTAAGTGGAATGCAATGTCTTAAATAAAA
CTATTTAAATTGGCACCATAAAAA

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FIGURE 1298

MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDKRLIG
RRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYF
NDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAEARNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGD
THLGGEDFDNRMVNHFAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRA
RFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAV
QAAILSGDKSENVQDLLLLLDVTPLSLGIETAGGVMTVLIKRNNTTIPTKQTQTFTTYSNQPGLIQVYEGERAMT
KDNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSVDKSTGKENKITITNDKGRLSKEDIERMVQEAKEY
KAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQKELE
KVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSSGASSGPTIEEVD

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FIGURE 1299A

CGGGTGGCGGCTCGGGACGGAGGACGCGCTAGTGTTCTTCTGTGTGGCAGTTCAGAAATGATGGATCAAGCTAGAT
CAGCATTCTCTAACTTGTGTTGGTGGAGAACCATTGTGCATATACCCGGTTCAGCCTGGCTCGGCAAGTAGATGGCG
ATAACAGTCATGTGGAGATGAAACTTGCTGTAGATGAAGAAGAAAATGCTGACAATAACACAAAAGCCAATGTCA
CAAAACCAAAAAGGTGTAGTGGAAAGTATCTGCTATGGGACTATTGCTGTGATCGTCTTTTTCTTGATTGGATTTA
TGATTGGCTACTTGGGCTATTGTAAAGGGGTAGAACCAAAACCTGAGTGTGAGAGACTGGCAGGAACCGAGTCTC
CAGTGAGGGAGGAGCCAGGAGAGGACTTCCCTGCAGCACGTCGCTTATATTGGGATGACCTGAAGAGAAAGTTGT
CGGAGAACTGGACAGCACAGACTTCACCGGCACCATCAAGCTGCTGAATGAAAATTCATATGTCCCTCGTGAGG
CTGGATCTCAAAAAGATGAAAATCTTGCGTTGTATGTTGAAAATCAATTTTCGTGAATTTAAACTCAGCAAAGTCT
GGCGTGATCAACATTTTGTAAAGATTACAGGTCAAAGACAGCGCTCAAACTCGGTGATCATAGTTGATAAGAACG
GTAGACTTGTGTTACCTGGTGGAGAATCCTGGGGGTATGTGGCGTATAGTAAGGCTGCAACAGTTACTGGTAAAC
TGGTCCATGCTAATTTTGGTACTAAAAAGATTTTGAGGATTTATACACTCCTGTGAATGGATCTATAGTGATTG
TCAGAGCAGGGAATACCTTTGCAGAAAAGGTTGCAATGCTGAAAGCTTAAATGCAATTGGTGTGTTGATAT
ACATGGACCAGACTAAATTTCCCATTTGTTAACGCAGAACTTTTATTCTTTGGACATGCTCATCTGGGGACAGGTG
ACCTTTACACACCTGGATTCCCTTCCTTCAATCACACTCAGTTTCCACCATCTCGGTGATCAGGATTGCCTAATA
TACCTGTCCAGACAATCTCCAGAGCTGCTGCAGAAAAGCTGTTTGGGAATATGGAAGGAGACTGTCCCTCTGACT
GGAAAACAGACTCTACATGTAGGATGGTAACCTCAGAAAGCAAGAATGTGAAGCTCACTGTGAGCAATGTGCTGA
AAGAGATAAAAATTCTTAACATCTTTGGAGTTATTAAAGGCTTTGTAGAACCAGATCACTATGTTGTAGTTGGGG
CCCAGAGAGATGCATGGGGCCCTGGAGCTGCAAAATCCGGTGTAGGCACAGCTCTCCTATTGAAACTTGCCCA
TGTTCTCAGATATGGTCTTAAAGATGGGTTTCAGCCCAGCAGAAGCATTATCTTTGCCAGTTGGAGTGCTGGAG
ACTTTGGATCGGTTGGTGCCACTGAATGGCTAGAGGGATACCTTTTCGTCCTGCATTTAAAGGCTTTCACTTATA
TTAATCTGGATAAAGCGGTTCTTGGTACCAGCAACTTCAAGGTTTCTGCCAGCCACTGTTGTATACGCTTATTG
AGAAAACAATGCAAAATGTGAAGCATCCGGTTACTGGGCAATTTCTATATCAGGACAGCAACTGGGCCAGCAAAG
TTGAGAACTCACTTTAGACAATGCTGCTTTCCCTTTCTTGCAATTTCTGGAATCCCAGCAGTTTCTTTCTGTT
TTTTCGAGGACACAGATTATCCTTATTTGGGTACCACCATGGACACCTATAAGGAAGTATTGAGAGGATTCCTG
AGTTGAACAAAGTGGCACGAGCAGCTGCAGAGGTCGCTGGTCAGTTCGTGATTAAACTAACCCATGATGTTGAAT
TGAACCTGGACTATGAGAGGTACAACAGCCAACCTGCTTTTATTGTTGAGGGATCTGAACCAATACAGAGCAGACA
TAAAGGAAATGGGCCTGAGTTTACAGTGGCTGTATTTCTGCTCGTGGAGACTTCTTCCGTGCTACTTCCAGACTAA
CAACAGATTTTCGGGAATGCTGAGAAAACAGACAGATTTGTGCATGAAGAACTCAATGATCGTGTGATGAGAGTGG
AGTATCACTTCTCTCTCCCTACGTATCTCCAAAAGAGTCTCCTTTCCGACATGTCTTCTGGGGCTCCGGCTCTC
ACACGCTGCCAGCTTTACTGGAGAAGTTGAACTGCGTAAACAAAATAACGGTGCTTTTAAATGAAACGCTGTTCA
GAAACCAGTTGGCTCTAGCTACTTGGACTATTACGGGAGCTGCAATGCCCTCTCTGGTGACGTTTGGGACATTG
ACAATGAGTTTAAATGTGATACCCATAGCTTCCATGAGAACAGCAGGGTAGTCTGGTTTCTAGACTTGTGCTGA
TCGTGCTAAATTTTTCAGTAGGGCTACAAAACCTGATGTTAAATTTCCATCCCATCATCTTGGTACTACTAGATGT
CTTTAGGCAGCAGCTTTTAAATACAGGGTAGATAACCTGTACTTCAAGTTAAAGTGAATAACCACTTAAAAATGT
CCATGATGGAATATTTCCCTATCTCTAGAATTTTAAAGTGCTTTGTAAATGGGAAGTGCCTCTTTCTGTTGTTGTT
AATGAAAATGTCAGAAACAGTTATGTGAATGATCTCTCTGAATCCTAAGGGCTGGTCTCTGCTGAAGGTTGTAA
GTGGTCGCTTACTTTGAGTGATCCTCCAACCTTCAATTTGATGCTAAATAGGAGATACCAGGTTGAAAGACCTTCTC
CAAAATGAGATCTAAGCCTTTCCATAAGGAATGTAGCTGGTTTCCTCATTCTGAAAGAAACAGTTAACTTTCAGA
AGAGATGGGCTTGTGTTTCTTGCCAATGAGGTCTGAAATGGAGGTCCTTCTGCTGGATAAAATGAGGTTCAACTGT
TGATTGCAGGAATAAGGCCTTAATATGTTAACTCAGTGTCATTTATGAAAAGAGGGGACCAGAAGCCAAAGACT
TAGTATATTTTCTTTTCTCTGTCCCTTCCCCCATAAGCCTCCATTTAGTTCTTTGTTATTTTTGTTTCTTCCAA
AGCACATTGAAAGAGAACCAGTTTACAGGTGTTTAGTTGCAGACTCAGTTTGTGAGACTTTAAAGAATAATATGCT
GCCAAATTTTGGCCAAAGTGTTAATCTTAGGGGAGAGCTTTCTGTCTTTTGGCACTGAGATATTTATTGTTTAT
TTATCAGTGACAGAGTTCACTATAAATGGTGTTTTTTTAAATAGAATATAATTATCGGAAGCAGTGCCCTTCCATAA
TTATGACAGTTTACTGTGCGGTTTTTTTTTAAATAAAAGCAGCATCTGCTAATAAAACCCAACAGATACTGGAAGT
TTTGCAATTTATGGTCAACACTTAAGGGTTTTAGAAAACAGCCGTGAGCCAAATGTAATTGAATAAAGTTGAAGCT
AAGATTTAGAGATGAATTAATTTAATTAGGGGTTGCTAAGAAGCGAGCACTGACCAGATAAGAATGCTGGTTTT
CCTAAATGCAGTGAATTGTGACCAAGTTATAAATCAATGTCACTTAAAGGCTGTGGTAGTACTCCTGCAAAATTT

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FIGURE 1299B

TATAGCTCAGTTTATCCAAGGTGTAACCTCTAATTCCCATTTTGCAAAATTTCCAGTACCTTTGTCACAATCCTAA
CACATTATCGGGAGCAGTGTCTTCCATAATGTATAAAGAACAAGGTAGTTTTTACCTACCACAGTGTCTGTATCG
GAGACAGTGATCTCCATATGTTACACTAAGGGTGTAAGTAATTATCGGGAACAGTGTTCCTATAATTTCTTCA
TGCAATGACATCTTCAAAGCTTGAAGATCGTTAGTATCTAACATGTATCCCAACTCCTATAATTCCCTATCTTTT
AGTTTTAGTTGCAGAAACATTTTTGTGGTCATTAAGCATTGGGTGGGTAAATTCAACCACTGTAAAATGAAATTAC
TACAAAATTTGAAATTTAGCTTGGGTTTTTGTACCTTTATGGTTTTCTCCAGGTCCTCTACTTAATGAGATAGTA
GCATACATTTATAATGTTTGCTATTGACAAGTCATTTTAACTTTATCACATTATTTGCATGTTACCTCCTATAAA
CTTAGTGCGGACAAGTTTTAATCCAGAATTGACCTTTTGACTTAAAGCAGGGGGACTTTGTATAGAAGGTTTGGG
GGCTGTGGGGAAGGAGAGTCCCCTGAAGGTCTGACACGTCTGCCTACCCATTTCGTGGTGATCAATTAAATGTAGG
TATGAATAAGTTCGAAGCTCCGTGAGTGAACCATCATTATAAACGTGATGATCAGCTGTTTGTATAGGGCAGTT
GGAAACGGCCTCCTAGGGAAAAGTTCATAGGGTCTCTTCAGGTTCTTAGTGTCACCTACCTAGATTTACAGCCTC
ACTTGAATGTGTCACTACTCACAGTCTCTTTAATCTTCAGTTTTATCTTTAATCTCCTCTTTTATCTTGGACTGA
CATTTAGCGTAGCTAAGTGAAAAGGTCATAGCTGAGATTCCTGGTTCGGGTGTTACGCACACGTACTTAAATGAA
AGCATGTGGCATGTTTCATCGTATAACACAATATGAATACAGGGCATGCATTTTGCAGCAGTGAGTCTCTTCAGAA
AACCCTTTTCTACAGTTAGGGTTGAGTTACTTCCTATCAAGCCAGTACGTGCTAACAGGCTCAATATTCTTGAAT
GAAATATCAGACTAGTGACAAGCTCCTGGTCTTGAGATGTCTTCTCGTTAAGGAGATGGGCCTTTTGGAGGTAAA
GGATAAAATGAATGAGTTCTGTATGATTCACTATTCTAGAACTTGCATGACCTTTACTGTGTTAGCTCTTTGAA
TGTTCTTGAAATTTTAGACTTTCTTTGTAAACAAATAATATGTCCTTATCATTGTATAAAAGCTGTTATGTGCAA
CAGTGTGGAGATTCCTTGTCTGATTTAATAAAATACTTAAACACTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1300

MMDQARSASF SNLFGGEPLSYTRFSLARQVDGDN SHVEMKLAVDEEENADNNTKANVT KPKRCSGSICYGTIAVIV
FFLIGFMIGYLG YCKGVEPKTECERLAGTESPVREEPGEDFPAARRLYWDDLKRKLSEKLDSTDF TGTIKLLNEN
SYVPREAGSQKD ENLALYVENQFREFKLSKVWRDQH FVKIQVKDSAQNSV IIVDKNGRLVYLVENPGGYVAYS KA
ATVTGKLVHANF GTKKDFEDLYTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGH
AHLGTGDPYTPG FPF SFNHTQFPSPRSSGLPNIPVQTISRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKL
TVSNVLKEIKILN IFGVIKGFVEPDHYVVVGAQRDAWGPGAAKSGVGTALLLKL AQMFSDMVLKDGFPQRSIIF
ASWSAGDFGSGV GATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQFLYQD
SNWASKVEKLTLD NAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELIERIPELNKVARAAAEVAGQFVIK
LTHDVELNLDYER YNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTD RFVMKKLN
DRVMRVEYHFLSP YVSPKESPFRRHVFWGSGSHTLPALLENLKL RKQNNGAFNETLFRNQLALATWTIQGAANALS
GDVWDIDNEF

1466/2825
FIGURE 1301

GTCACTCGTATAAAAACCTATGCTTTGAAGGTTCTCGTGTGTCTCGGCCTGCAGGTCTCGCTCAGAGCTGTGTCC
CTGAACATCCACCCTGCTGGGGTGGCTTGACGCACTTCTGTGCAAATCTGTTTCGCTCGCAACCCTACCTACCTCT
CTCCCGAACCGGAGAAAAACCTTCGGCGGGGTCCTTCCGGGTTTTGTGTGCAATCTGCGGGCGGACCCGGCGCCG
CGTCACGCGGTGGTGAATGTGCGGCAGTACGCGCGCCGCTCGTTTTACGCGGCGATTTCATCATGCTCCGAGCCG
GCGGCGCGCGCCGCTTCCGTGCGCACCCCTCTCTGGACAGCCCAGGGCCGCAGGCTCATGCCCTCTCCGCGTCCAG
TGCTGCTTAGAGGTGCTCGCGCCGCTCTGCTGCTGCTGCTGCCGCCCGGGCTCTTAGCCCCGACCCCTCGCTCCTCC
TCCGCCGGTCCCTCAGCGCGGCTCCTGCGCCCCGATCTCCTTGCCCCGCCGCGCTCCCGGAGCAGCATCGGACG
GCGCGGGGGCTGAGGAGGTGCTGGCACCTCTGAGGCTAGCAGTGCGCCAGCAGGGAGATCTTGTGCGAAAACCTCA
AAGAAGATAAAGCACCCCAAGTAGACGTAGACAAAGCAGTGGCTGAGCTCAAAGCCCGCAAGAGGGTTCTGGAAG
CAAAGGAGCTGGCGTTACAGCCCCAAAGATGATATTGTAGACCGAGCAAAAATGGAAGATACCCTGAAGAGGAGGT
TTTTCTATGATCAAGCTTTTGCTATTTATGGAGGTGTTAGTGGTCTGTATGACTTTGGGCCAGTTGGCTGTGCTT
TGAAGAACAATATTATTAGACCTGGAGGCAGCACTTTATCCAAGAGGAACAGATCCTGGAGATCGATTGCACCA
TGCTCACCCCTGAGCCAGTTTTAAAGACCTCTGGCCATGTAGACAAATTTGCTGACTTCATGGTGAAAGACGTAA
AAAAATGGAGAATGTTTTCTGTGCTGACCATCTATTAAGCTCATTTACAGAAATTGATGTCTGATAAGAAAGTGT
CTGTGAAAAAGAAATCAGAAATGGAAGTGTTTTGCCCCAGCTTGATAACTATGGACAGCAAGAAGTTCGCGGATC
TTTTTGTAAGTATAATGTAAATCTCCATTACTGGAAATGATCTATCCCTCCAGTGTCTTTAACTTAATGT
TCAAGACTTTTATTGGGCTGGAGGAAACATGCCTGGGTACTTGAGACCAGAACTGCACAGGGGATTTTCTTGA
ATTTCAAACGACTTTTGAGTTCAACCAAGGAAAGTTGCCTTTTGCTGCTGCCAGATTGGAAATCTTTTAGAA
ATGAGATCTCCCTCGATCTGGACTGATCAGAGTCAGAGAATTCACAATGGCAGAAATTGAGCACTTTGTAGATC
CCAGTGAGAAAGACCACCCCAAGTTCCAGAATGTGGCAGACCTTCACCTTTATTTGTATTTCAGCAAAAAGCCAGG
TCAGCGGACAGTCCGCTCGGAAAATGCGCCTGGGAGATGCTGTTGAACAGGGTGTGATTAATAACACAGTATTAG
GCTATTTTATTGGCCGATCTACCTCTACCTCACGAAGGTTGGAATATCTCCAGATAAACTCCGCTTCCGGCAGC
ACATGGAGAATGAGATGGCCATTATGCCTGTGACTGTTGGGATGCAGAATCCAAAACATCCTACGGTTGGATTG
AGATTGTTGGATGTGCTGATCGTTTCTGTTATGACCTCTCCTGTCTATGCACGAGCCACCAAAGTCCCACTTGTAG
CTGAGAAAACCTCTGAAAGAACCCAAAACAGTCAATGTTGTTTCAAGTTTGAACCCAGTAAGGGAGCAATTGGTAAGG
CATATAAGAAGGATGCAAACTGGTGATGGAGTATCTTGCCATTTGTGATGAGTGCTACATTACAGAAATGGAGA
TGCTGCTGAATGAGAAAGGGGAATTCACAATTGAACTGAAGGGAAAACATTTTCAAGTTAACAAAAGACATGATCA
ATGTGAAGAGATTCCAGAAAACACTATATGTGGAAGAAGTTGTTCCGAATGTAATTGAACCTTCTTCCGGCCTGG
GTAGGATCATGTATACGGTATTTGAACATACATTCCATGTACGAGAAGGAGATGAACAGAGAACATTCTTCAGTT
TCCCTGCTGTAGTTGCTCCATTCAAATGTTCCGTCTCTCCACTGAGCCAAAACCAGGAGTTTCATGCCATTTGTCA
AGGAATTATCGGAAGCCCTGACCAGGCATGGAGTATCTCACAAAGTAGACGATTCTCTGGGTCAATCGGAAGGC
GCTATGCCAGGACTGATGAGATTGGCGTGGCTTTTGGTGTCACCATTGACTTTGACACAGTGAACAAGACCCCC
ACACTGCAACTCTGAGGGACCGTGAATCAATGCGGCAGATAAGAGCAGAGATCTCTGAGCTGCCCAGCATAGTCC
AAGACCTAGCCAATGGCAACATCACATGGGCTGATGTGGAGGCCAGGTATCCTCTGTTTGAAGGGCAAGAGACTG
GTAAAAAGAGACAATCGAGGAATGAGGACAATTTTGACAACCTTTTGACCACTTTCGCTAATAAAAAAAAAAAAA
CTACTCTTATGTCCACTTTACAAAAGAAAACAGCATTGTGATTACTCCAGGGACCGTATTTTATCTTCAGTGGC
TGCTGATTTTACCCCCACAATTAAAGTTGAAGGAATCCTGA

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FIGURE 1302

MDGAGAEVLAPLRLAVRQQGDLVRKLKEDKAPQVDVDKAVAEKARKRVLEAKELALQPKDDIVDRAKMEDTLK
RRFFYDQAFAIYGGVSGLYDFGPVGCALKNNIIQTWRQHFIQEEQILEIDCTMLTPEPVLKTSGHVDKFADFMVK
DVKNGECEFRADHLLKAHLQKLMSDKKCSVEKKSEMESVLAQLDNYGQELADLFVNYNVKSPITGNDLSPPVSFN
LMFKTFIGPGGNMPGYLRPETAQGIFLNFKRLLEFNQGKLPFAAAQIGNSFRNEISPRSGLIRVREFTMAEIEHF
VDPSEKDHPKFQNVADLHLYLYSAKAQVSGQSARKMRLGDAVEQGVINNTVLGYFIGRIYLYLTKVGISPDKLRF
RQHMENEMAHYACDCWDAESKTSYGWIEIVGCADRSCYDLSCHARATKVPLVAEKPLKEPKTVNVVQFEPKSGAI
GKAYKKDAKLVMEYLAICDECYITEMEMLLNEKGFTIETEGKTFQLTKDMINVKRFQKTLYVEEVVENVIEPSF
GLGRIMYTVFEHTFHVREGDEQRTFFSFPVAVVAPFKCSVLPLSQNQEFMPFVKELSEALTRHGVSHKVDDSSGSI
GRRYARTDEIGVAFGVTIDFDTVNKTPHTATLDRDRDSMRQIRAEISELPSIVQDLANGNITWADVEARYPLFEGQ
ETGKKEETIEE

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FIGURE 1303

CGGCAGCCCTCCTACCTGCGCACGTGGTGCCGCTGCTGCTGCCTCCCGCTCGCCCTGAACCCAGTGCCTGCAGCC
ATGGGCTCCCGGCCAGCTCGCCTTATTTAGTGTCTCTGACAAAACCGCCTTGTGGAATTTGCAAGAAACCTGACC
GCTCTTG GTTTGAATCTGGTCGCTTCCGGAGGGACTGCAAAAGCTCTCAGGGATGCTGGTCTGGCAGTCAGAGAT
GTCTCTGAGTTGACGGGATTTCTGAAATGTTGGGGGGACGTGTGAAAACCTTGCATCCTGCAGTCCATGCTGGA
ATCCTAGCTCGTAATATTCCAGAAGATAATGCTGACATGGCCAGACTTGATTTCAATCTTATAAGAGTTGTTGCC
TGCAATCTCTATCCCTTTGTAAAGACAGTGGCTTCTCCAGGTGTAAGTGTGAGGAGGCTGTGGAGCAAATTGAC
ATTGGTGGAGTAACCTTACTGAGAGCTGCAGCCAAAAACCACGCTCGAGTGACAGTGGTGTGTGAACCAGAGGAC
TATGTGGTGGTGTCCACGGAGATGCAGAGCTCCGAGAGTAAGGACACCTCCTTGGAGACTAGACGCCAGTTAGCC
TTGAAGGCATTCACTCATACGGCACAATATGATGAAGCAATTTAGATTATTTAGGAAACAGTACAGCAAAGGC
GTATCTCAGATGCCCTTGAGATATGGAATGAACCCACATCAGACCCCTGCCAGCTGTACACACTGCAGCCCAAG
CTTCCCATCACAGTTCTAAATGGAGCCCCCTGGATTTATAAACTTGTGCGATGCTTTGAACGCCTGGCAGCTGGTG
AAGGAAGTCAAGGAGGCTTTAGGTATTCCAGCCGCTGCCTCTTTCAAACATGTCAGCCCAGCAGGTGCTGCTGTT
GGAATTCCTCAGTGAAGATGAGGCCAAAGTCTGCATGGTTTATGATCTCTATAAAACCCCTCACACCCATCTCA
GCGGCATATGCAAGAGCAAGAGGGGCTGATAGGATGTCTTCATTTGGTGATTTTGTGTCATTGTCCGATGTTTGT
GATGTACCAACTGCAAAAATTATTTCCAGAGAAGTATCTGATGGTATAATTGCCCCAGGATATGAAGAAGAAGCC
TTGACAATACTTTCCAAAAGAAAAATGGAACTATTGTGTCCTTCAGATGGACCAATCTTACAAACCAGATGAA
AATGAAGTTCGAAGTCTCTTTGGTCTTCATTTAAGCCAGAAGAGAAATAATGGTGTGTCGTCGACAAGTCATTATTT
AGCAATGTTGTTACCAAAAATAAAGATTTGCCAGAGTCTGCCCTCCGAGACCTCATCGTAGCCACCATTGCTGTC
AAGTACACTCAGTCTAACTCTGTGTGCTACGCCAAGAACGGGCAGGTTATCGGCATTGGAGCAGGACAGCAGTCT
CGTATACACTGCACTCGCCTTGACAGGAGATAAGGCAAACCTATTGGTGGCTTAGACACCATCCACAAGTGCTTTTCG
ATGAAGTTTAAACAGGAGTGAAGAGAGCAGAAATCTCCAATGCCATCGATCAATATGTGACTGGAACCATTGGC
GAGGATGAAGATTTGATAAAGTGGAAGGCACTGTTTGAGGAAGTCCCTGAGTTACTCACTGAGGCAGAGAAGAAG
GAATGGGTTGAGAACTGACTGAAGTTTCTATCAGCTCTGATGCCTTCTTCCCTTTCCGAGATAACGTAGACAGA
GCTAAAAGGAGTGGTGTGGCGTACATTGCGGCTCCCTCCGGTCTTGCTGCTGACAAAGTTGTGATTGAGGCCTGC
GACGAACTGGGAATCATCCTCGCTCATAACGAACCTTCGGCTCTTCCACCACTGATTTTTACCACACACTGTTTTTT
GGCTTGCTTATGTGTAGGTGAACAGTCACGCCTGAAACTTTGAGGATAACTTTTTAAAAAATAAAACAGTATCT
CTTAAAAAATGTTTTGATCTACATAAACATTGTAAAAATTTTCAATCACGCTTTTTTAACCTTTCTTACCACAAAA
AAATGATAAGTGGGTGAAGTGATGGTTATGTTAATTAGCGTGC

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FIGURE 1304

MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLLHPAVHAG
ILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLLRAAAKNHARVTVVCEPED
YVVVSTEMQSSES KDTSLERTRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPK
LPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFHKHVSPAGAAVGIPLSEDEAKVCMVYDLYKTLTPIS
AAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEEALTILSKKKNGNYCVLQMDQSYKPDE
NEVRTLFGLHLSQKRNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTQSNSVCYAKNGQVIGIGAGQQS
RIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKK
EWVEKLTEVSISSDAFFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVEACDELGIILAHTNLRLFHH

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FIGURE 1305

AATTCGGGGGCGTGGAGTTTGTGACATACGAGGTGACACCCCTCGAGTCACTTCCCTTCAACTCCAGCTGGAGC
GCCTGCTTGGCTTTGGGTTCTGTTCTGCAGCCTTCGCCCCGCTCCTAGCCTCAGGGCCGGACTCCAGCGCAGAGCC
CAGCCCAGCGCAGCCTGCCAGCAGCCACCCAGCCGCCAGCCGCCAGCCCCGCACGAAACCCGGCCAGAGCTTC
CTAGCAGCCCGAGCCATGAACACCGAAATGTATCAGACCCCCATGGAGGTGGCGGTCTACCAGCTGCACAATTTT
TCCATCTCCTTCTTCTCTTCTGCTTGGAGGGGATGTGGTTTTCCGTTAAGCTGGACAACAGTGCCTCCGGAGCC
AGCGTGGTGGCCATAGACAACAAGATCGAACAGGCCATGGATCTGGTGAAGAATCATCTGATGTATGCTGTGAGA
GAGGAGGTGGAGATCCTGAAGGAGCAGATCCGAGAGCTGGTGGAGAAGAAGTCCCAGCTAGAGCGTGAGAACACC
CTGTTGAAGACCCTGGCAAGCCCAGAGCAGCTGGAGAAGTTCAGTCTGTCTGAGCCCTGAAGAGCCAGCTCCC
GAATCCCCACAAGTGCCCGAGGCCCTGGTGGTTCTGCGGTGTAAGTGGCTCTGTCTCAGGGTGGGCAGAGCCA
CTAAACTTGTTTTACCTAGTTCTTTCCAGTTTGTTTTGGCTCCCCAAGCATCATCTCAGAGGAGAAGTCTTACA
CCTAGCACAGCTGGTGCCAAGAGATGTCTTAAGGACATGGCCACCTGGGTCCACTCCAGCGACAGACCCCTGACA
AGAGCAGGTCTCTGGAGGCTGAGTTGCATGGGGCCTAGTAACACCAAGCCAGTGAGCCTCTAATGCTACTGCGCC
CTGGGGGCTCCCAGGGCCTGGGCAACTTAGCTGCAACTGGCAAAGGAGAAGGGTAGTTTGAGGTGTGACACCAGT
TTGCTCCAGAAAGTTTAAGGGTCTGTTTCTCATCTCCATGGACATCTTCAACAGCTTCACCTGACAACGACTGT
TCCTATGAAGAAGCCACTTGTGTTTTAAGCAGAGGCAACCTCTCTCTTCTCCTCTGTTTCGTGAAGGCAGGGGAC
ACAGATGGGAGAGATTGAGCCAAGTCAGCCTTCTGTTGGTTAATATGGTATAATGCATGGCTTTGTGCACAGCCC
AGTGTGGGATTACAGCTTTGGGATGACCGCTTACAAAGTTCTGTTTGGTTAGTATTGGCATAGTTTTTCTATATA
GCCATAAATGCGTATATATACCCATAGGGCTAGATCTGTATCTTAGTGTAGCGATGTATACATATACACATCCAC
CTACATGTTGAAGGGCCTAACCAGCCTTGGGAGTATTGACTGGTCCCTTACCTCTTATGGCTAAGTCTTTGACTG
TGTTCAATTTACCAAGTTGACCCAGTTTGTCTTTTAGGTTAAGTAAGAAGTTCGAGAGTAAAGGCAAGGAGGGGGGC
CAGCCTCTGAATGCGGCCACGGATGCCTTGCTGCTGCAACCCCTTTCCCCAGCTGTCCACTGAAACGTGAAGTCCT
GTTTTGAATGCCAAACCCACCATTCACTGGTGCTGACTACATAGAATGGGTTGAGAGAAGATCAGTTTGGGCTTC
ACAGTGTCAATTTGAAAAAGCGTTTTTGTGTTTTGTTTTGAATTATTGTGGAAAACCTTCAAGTGAACAGAAGGATGG
TGTCTACTGTGGATGAGGGATGAACAAGGGGATGGCTTTGATCCAATGGAGCCTGGGAGGTGTGCCCAGAAAGC
TTGTCTGTAGCGGGTTTTGTGAGAGTGAACACTTTCCACTTTTTGACACCTTATCCTGATGTATGGTTCCAGGAT
TTGGATTTTGATTTTCCAAATGTAGCTTGAAATTTCAATAAACTTTGCTCTGTTTTTCTAAAAAATAAAAA

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FIGURE 1306

MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVSVKLDNSASGASVVAIDNKIEQAMD LVKNHLMYAVREEVEI
LKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPPEEPAPESPQVPEAPGGSAV

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FIGURE 1307

TTAAGGCAGGGGCTGATATAGAACTTGGCTGCTCCACACCTCTGATGGAGGCATCTCAGGAGGGACACCTGGAAT
TGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACAGGAGACACAGCCTTAACCTATG
CTTGTGAAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCTGATTTAGACAAGCAGGAGGACA
TGAAGACTATTTTGGAGGGCATAGATCCGGCCAAGCATCAGGAACATGAATCTGAAGGTGGAAGAACACCTTTGA
TGAAAGCTGCAAGAGCTGGTCATTTGTGCACTGTGCAGTTTCTTATTAGCAAAGGTGCCAATGTTAACAGGGCTA
CAGCCAATAATGATCATACAGTAGTGTGCTGGCATGTGCAGGAGGCCACCTGGCAGTTGTTGAGCTTCTCTTGG
CTCATGGGGCTGACCCTACTCATCGACTCAAGGATGGTTCAACAATGCTCATTGAAGCTGCAAAGGGTGGCCATA
CTAATGTAGTTTCTTATCTGTTGGATTATCCAAATAATGTTCTGTGTCAGTTCCCACCACAGATGTGTCTCAGCTCC
CTCCACCTTCTCAAGATCAGTCTCAGGAACCTGACAGAACTTCACAGGAGAACTCTCCTGCCCTTTTAGGAGTG
AAAAAGCTGTGAGTACCAGAGTGCCCACTGGTTCCAACAGTTCTTCTCAGACCACAGAGTGTCTTACACCTGAAT
CCTGTTTCGAGACTACAAGCAATGTGGCTTCCCAATCGATGCCTCCTGTGTATCCTTCAGTTGACGTTGATGCAC
ATACTGAGAGCAATCATGACACAGCATTAACTAGCTTGTGTCAGGTGGTCATGAAGAACTTGTATCTGTGCTCA
TTGCACGGGATGCCAAAATTGAACACAGAGACAAAAAAGGTTTACACCCTAATCCTGGCAGCAACAGCAGGGC
ATGTTGGAGTTGTTGAAATCCTTTTGGATAAAGGTGGAGATATAGAAGCACAGTCTGAACGAACCTAAGGATACTC
CGCTTTCATTGGCATGTTCTGGTGGACGTCAGGAGGTGGTAGACTTGTGCTGGCTCGAGGTGCAAATAAAGAAC
ATAGGAACGTATCTGATTATACACCACTGAGTCTAGCTGCGTCTGGAGGATATGTTAATATCATTAAAGATTCTGC
TTAATGCTGGGGCAGAAATTAATTCAAGGACTGGGAGTAACTAGGTATTTCTCCCCTGATGTTGGCTGCAATGA
ATGGACATGTTCTGTCAGTAAATTTGCTGCTCGATATGGGTTTCAGACATTAATGCCCAAATAGAGACCAATCGGA
ACACGGCTCTCACCTGGCCTGTTTCCAGGGCCGAGCAGAAGTAGTGAGTTTGCTTCTGGACCGAAAAGCCAATG
TTGAACATAGGGCAAAGACGGGTCTTACCCCCTTGATGGAAGCAGCTTCTGGAGGGTATGCAGAGGTTGGAAGAG
TTCTTCTTGATAAAGGAGCAGATGTTAATGCTCCCCCTGTGCCTTCTCAAGAGATACTGCTTTTACAATAGCAG
CAGACAAAGGTCCTACAAATTTTGTGAACTCCTGATTCATAGGGGAGCCACATTGATGTTTCGTAACAAAAAGG
GAAATACGCCACTTTGGCTGGCATCCAATGGAGGTCATTTTGATGTTGTGTCAGTTGCTAGTGCAAGCAGGTGCTG
ATGTGGATGCAGCAGATAACCGGAAAATCACACCTCTTATGTCAGCATTTCGCAAGGGTCATGTAAAAGTTGTTT
AATATTTGGTAAAGGAAGTAAATCAGTTCCCTTCTGATATAGAATGCATGAGATACATAGCAACAATTACAGATA
AGGAACTGTTGAAAAATGTCATCAATGTGTGAAAACCATTTGTGAAGGCTAAAGACCAGCAAGCTGCGGAAGCAA
ATAAGAATGCGAGTATTCTTTTAAAGGAACTTGATCTGGAAAAGTCAAGAGAAGAGAGCAGAAAGCAGGCTCTTG
CTGCTAAAAAGAGAAAAAAGAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAAAGAGAAAAA
AA

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FIGURE 1308

MEASQEGHLELVKYLASGANVHATTATGDTALTYACENGHTDVADVLLQAGADLDKQEDMKTTILEGIDPAKHQE
HESEGGRTPLMKAARAGHLCTVQFLISKGANVNRATANNDHTVVSLACAGGHLAVVELLLAHGADPTHRLKDGST
MLIEAAKGGHTNVVSYLLDYPNNVLSVPTTDDVSQLPPPSQDQSQEPDRTSQENSPALLGVQKAVSTRVPTGSNSS
SQTTECLTPESCSQTTSNVASQSMPPVYPSVDVDAHTESNHDTALTACAGGHEELVSVLIARDAKIEHRDKKGF
TPLILAATAGHVGVEILLDKGGDIEAQSERTKDTPLSLACSGGRQEVVDLLLARGANKEHRNVSDYTPLSLAAS
GGYVNI IKILLNAGAEINSRTGSKLGISPLMLAAMNGHVPAVKLLLDMGSDINAQIETNRNTALTACFQGRAEV
VSLLDRKANVEHRAKTGLTPLMEAASGGYAEVGRVLLDKGADVNPVPSSRDTALTIAADKGHYKFCELLIHR
GAHIDVRNKKGNTPLWLASNGGHFDVVQLLVQAGADVDAADNRKITPLMSAFRKGHVQVQYLVKEVNQFSPDIE
CMRYIATITDKELLKKCHQCVETIVKAKDQQAEEANKNASILLKELDLEKSREESRKQALAAKREKRKEKRKKKK
KKKKKKKKKK

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FIGURE 1309

1

ATGGCGCTTGCCAGCGTGTTGGAGAGACCGCTACCGGTGAACCAGCGCGGGTTTTTCGGACTTGGGGGTCGTGCA
GATCTGCTGGATCTAGGTCCAGGGAGTCTCAGTGATGGTCTGAGCCTGGCCGCGCCAGGCTGGGGTGTCCCAGAA
GAGCCAGGAATCGAAATGCTTCATGGAACAACCACCTGGCCTTCAAGTTCCGCCATGGAGTCATAGTTGCAGCT
GACTCCAGGGCTACAGCGGGTGCTTACATTGCCTCCCAGACGGTGAAGAAGGTGATAGAGATCAACCCATACCTG
CTAGGCACCATGGCTGGGGGCGCAGCGGATTGCAGCTTCTGGGAACGGCTGTTGGCTCGGCAATGTCGAATCTAT
GAGCTTCGAAATAAGGAACGCATCTCTGTAGCAGCTGCCTCCAACTGCTTGCCAACATGGTGTATCAGTACAAA
GGCATGGGGCTGTCCATGGGCACCATGATCTGTGGCTGGGATAAGAGAGGCCCTGGCCTCTACTACGTGGACAGT
GAAGGGAACCGGATTTACAGGGGCCACCTTCTCTGTAGGTTCTGGCTCTGTGTATGCATATGGGGTCATGGATCGG
GGCTATTCTATGACCTGGAAGTGGAGCAGGCCTATGATCTGGCCCGTCGAGCCATCTACCAAGCCACCTACAGA
GATGCCTACTCAGGAGGTGCAGTCAACCTCTACCACGTGCGGGAGGATGGCTGGATCCGAGTCTCCAGTGACAAT
GTGGCTGATCTACATGAGAAGTATAGTGGCTCTACCCCCTGA

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FIGURE 1310

MALASVLERPLFPVNQRGFFGLGGRADLLDLGPGSLSDGLSLAAPGWGVPEEPGIEMLHGTTTLAFKFRHGVIVAA
DSRATAGAYIASQTVKKVIEINPYLLGTMAGGAADCSFWERLLARQCRIYELRNKERISVAAASKLLANMVYQYK
GMGLSMGMTMICGWDKRGPGLYYVDSEGNRISGATFSVGSGSVYAYGVMDRGYSYDLEVEQAYDLARRAIYQATYR
DAYSGGAVNLYHVREDGWIRVSSDNVADLHEKYSGSTP

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FIGURE 1311

CGGTGCCTGGTGCGGGAGCTACGGGGCCCAGGGATTGTGTTTAAAGTAGTGCTTCTACCAACATGTCCCCGTGGTT
CCAGCGCCGGTTTTGACCGCCACATTACCATTTTTTCACCCGAGGGTCGGCTCTACCAAGTAGAATATGCTTTTA
AGGCTATTAACCAGGGTGGCCTTACATCAGTAGCTGTCAGAGGGAAAGACTGTGCAGTAATTGTCACACAGAAGA
AAGTACCTGACAAATTATTGGATTCCAGCACAGTGACTCACTTATTCAAGATAACTGAAAACATTGGTTGTGTGA
TGACCGGAATGACAGCTGACAGCAGATCCCAGGTACAGAGGGCACGCTATGAGGCAGCTAACTGGAAATACAAGT
ATGGCTATGAGATTCCTGTGGACATGCTGTGTAAAAGAATTGCCGATATTTCTCAGGTCTACACACAGAAATGCTG
AAATGAGGCCTCTTGGTTGTTGTATGATTTTAATTGGTATAGATGAAGAGCAAGGCCCTCAGGTATATAAGTGTG
ATCCTGCAGGTTACTACTGTGGGTTTAAAGCCACTGCAGCGGGAGTTAAACAAACTGAGTCAACCAGCTTCCTTG
AAAAAAAAAGTGAAGAAGAAATTTGATTGGACATTTGAACAGACAGTGGAACACTGCAATTACATGCCTGTCTACTG
TTCTATCAATTGATTTCAAACCTTCAGAAATAGAAGTTGGAGTAGTGACAGTTGAAAATCCTAAATTCAGGATTC
TTACAGAAGCAGAGATTGATGCTCACCTTGTTGCTCTAGCAGAGAGAGACTTAAACATTGTCGTTAGTTTACCAGA
TCCGTGATGCCACTTACCTGTGTGTTTGGTAACAACAAACAAACATCATGGAGGTCCCTGGATTGAAAAAGGAGC
CTCTCCCACTCCTCCTACCACCGAAGTGTTAGGACTCTATATAAATAAAAACAAGGCTTTTGGAAAAAAAAAAAA
AAAA

1477/2825
FIGURE 1312

MSRGSSAGFDRHITIFSPEGRLYQVEYAFKAINQGGLTSVAVRGKDCAVIVTQKKVPDKLLDSSTVTHLFKITEN
IGCVMTGMTADSRSQVQRARYEAANWKYKYGYEIPVDMLCKRIADISQVYTQNAEMRPLGCCMILIGIDEEQGPQ
VYKCDPAGYYCGFKATAAGVKQTESTSFLEKKVKKKFDWTFEQTVETAITCLSTVLSIDFKPSEIEVGVVTVENP
KFRILTEAEIDAHLVALAERD

1478/2825
FIGURE 1313

GATGTGGCCCGTGGCCTAGCTCGTCAAGTTGCCGTGGCGCGGAGAACTCTGCAAAACAAGAGGCTGAGGATTGCG
TTAGAGATAAACAGTTTACGCCGAGCCCCGTGAGGGAAGCGTCTCCGTTGGGTCCGGCCGCTCTGCGGGACTC
TGAGGAAAAGCTCGCACCAGGTGGACGCGGATCTGTCAACATGGGTAAAGGAGACCCCAACAAGCCGCGGGGCAA
AATGTCCCTCGTACGCCTTCTTCGTGCAGACCTGCCGGGAAGAGCACAGAAGAAACACCCGGACTCTTCCGTCAA
TTTCGCGGAATTCTCCAAGAAGTGTTCCGGAGAGATGGAAGACCATGTCTGCAAAGGAGAAGTCGAAGTTTGAAGA
TATGGCAAAAAGTGACAAAGCTCGCTATGACAGGGAGATGAAAAATTACGTTCCCTCCCAAAGGTGATAAGAAGGG
GAAGAAAAAGGACCCCAATGCTCCTAAAAGGCCACCATCTGCCTTCTTCCTGTTTTTGCTCTGAACATCGCCAAA
GATCAAAAAGTGAACACCCTGGCCTATCCATTGGGGATACTGCAAAGAAATTGGGTGAAATGTGGTCTGAGCAGTC
AGCCAAAGATAAACAACCATATGAACAGAAAGCAGCTAAGCTAAAGGAGAAATATGAAAAGGATATTGCTGCATA
TCGTGCCAAGGGCAAAAGTGAAGCAGGAAAGAAGGGCCCTGGCAGGCCAACAGGCTCAAAGAAGAAGAACGAACC
AGAAGATGAGGAGGAGGAGGAGGAAGAAGAAGATGAAGATGAGGAGGAAGAGGATGAAGATGAAGAATAAATGGC
TATCCTTTAATGATGCGTGTGGAATGTGTGTGTGTGCTCAGGCAATTATTTTGCTAAGAATGTGAATTCAAGTGC
AGCTCAATACTAGCTTCAGTATAAAAACTGTACAGATTTTTGTATAGCTGATAAGATTCTCTGTAGAGAAAATAC
TTTTAAAAAATGCAGGTTGTAGCTTTTTGATGGGCTACTCATAAGTTAGATTTTACAGCTTCTGATGTTGAATG
TTCCATAAATATTTAATGGTTTTTTTTAATTTCTGTGTGTATGGTAGCACAGCAAACCTGTAGGAATTAGTATCAAT
AGTAAATTTTGGGTTTTTTTAGGATGTTGCATTTCTGTTTTTTTAAAAAAATTTTGTAAATAAAATTATGTATATTA
TTTCTATTGTCTTTGTCTTAATATGCTAAGTTAATTTTCACTTTAAAAAAGCCATTTGAAGACCAAAAAAAAAA
AA

1479/2825
FIGURE 1314

MGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFEDMAKSDKARYDREM
KNYVPPKGDKKGKKKDPNAPKRPPSAFFLFCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAK
LKEYEKDIAAYRAKGKSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEEE

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FIGURE 1315

TCTCTTGATTCCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCCAGCCTGTCCTG
GTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGC
ACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTA
AATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGATGAC
AGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGGTGCACCTTCGAATTGGAGCT
GATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGTCTCACC AACCTGGGAG
AATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCCGGTCTATCGCTACTGGGATGCAGAGAAGAGA
GGATTGGACCTCCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCTCCACGCCTGT
GCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGGAAGCAGATTGCTTCTGTCAATGAAGCACC GTTT
CTGTTCCCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAACCTGGAGAGAGATGCCTGGGCCATTTCGC
TATTTTGTGTCTGAAGGCTTCGAGTTCTTCTGTGCCCAGTCCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGA
GTCGGGAATCTGACTGTGGTTGGAAGAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCAGATGGAGAAGATCGTG
CGGATTACTTGGTCCAATCCCCCGCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCTGAGCTCTTT
GAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAACTCAGGGCAGGACTA
GAAGCCCTCAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATGTTGAGCTTCACTGGGTGAAC
CCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGC
TTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGAAGAAACACC
ACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCAATGTGTGTTCCCTGCCTGCACAAACCTACATGTACATACCAT
GGATTAGAGACACTTGCAGGACTGAAAGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAG
AACATCCCTTGAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTATTAA
GAATAAAAGAGTACTTTGATCATGAGACATAGGTATCTTGTCCTCTCACTAAAAAGGAGTGTTGTGTGTGGCGG
CCACGTGCTTCTATGTGGTGTGTTGACTCTGTACAAATTCTAGTCCCAAAGATCAAGTTGTCTGAAGGAGCCAAAG
TGTGAATGTGGGTGTCGGCTGCGGCATTAAATTCATCATCTCAACCCAGAGTGTCTGGTCTCCCTGCTCTTTCTG
CATGGTTGTGTCCTAGTCCTAAGCTTTGGTTCTTTAGGGTGACTGTGGTAAGAAGGATATTTAATCATGACATG
CACGGACACGTACATATTTAACTGAAACAAGTTTTACCAACAGTATTTACTCGTGATGTGCGTAGTGCAATTCTG
ATATTTTTGAGCCATTCTATTGTGTTCTACTTCACCTAAAAAATAAAATAAAATGTTGATCAAG

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FIGURE 1316

MAPPSVFAEVPQAQPVLVFKLTADFREDPDPRKVN LGVGAYRTDDCHPWVLPVVKKVEQKIANDNSLNHEYLPIL
GLAEFRSCASRLALGDDSPALKEKRVGGVQSLGGTGALRIGADFLARWYNGTNNKNTPVYVSSPTWENHNAVFSA
AGFKDIRSYRYWDAEKRGDLQGF LNDLENAP EFSIVVLHACAHNPTGIDPTPEQWKQIASVMKHRFLFPFFDSA
YQGFASGNLERDAWAIRYFVSEGFEFFCAQSFSKNFGLYNERVGNLTVVGKEPESILQVLSQMEKIVRITWSNPP
AQGARIVASTLSNP ELFEEWTGNVKIMADRILTMRSELRARLEALKTPGTWNHITDQIGMFSFTGLNPKQVEYLV
NEKHIYLLPSGRINVSGLT TKNLDYVATSIHEAVTKIQ

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FIGURE 1317

CCCACGCGTCCGCAGTACCGGAGGAGAAAAGATCGSCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGGCCAGCACCG
GCTTGGGGGCGGAGGCGTTCACTCCAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTG
CAGTTTGACGGGGGCGTGGTTCTGGGGGCGGACTCCAGAACAACCACTGGGTCTACATCGCCAATCGAGTGACT
GACAAGCTGACACCTATTACGACCGCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCT
GATGCTGTCACCTACCAGCTCGGTTTCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGC
CTCTTTAAGGAGATGTGTTACCGATAACGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAA
GAAGGAGGGCAGGTGTACTCAGTGCCTATGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGG
AGCTCCTACATCTATGGCTATGTTGATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCACT
GCCAATGCTCTCGCTTTGGCCATGGAGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAG
TCAGGGGTAGAGCGGCAAGTACTTTGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGA

ATCCTGGGATTCTAGTATGCAATAAGAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTACAGAGAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1318

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRTTGTGSYIANRVTDKLTPIHDRI
FCCRSGSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIIAGWDPQEGGQVYSVPM
GGMMVRQSFAIGGSGSSYIYGVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG
DQIPKFAVATLPPA

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FIGURE 1319

ATGACGAAGAACGAGAAGAAGTCCCTCAACCAGAGCCTGGCCGAGTGGAAGCTCTTCATCTACAACCCGACCACC
GGAGAATTCCTGGGGCGCACCGCCAAGAGCTGGGGTTTGATCTTGCTCTTCTACCTAGTTTTTTATGGGTTCTTG
GCTGCACTCTTCTCATTACGATGTGGGTATGCTTCAGACTCTCAACGATGAGGTTCCAAAATACCGTGACCAG
ATTCTAGCCCAGGACTCATGGTTTTTCCAAAACCAGTGACCGCATTGGAATATACATTACAGTAGGTTCTGATCCA
ACTTCGTATGCAGGGTACATTGAAGACCTTAAGAAGTTTCTAAAACCATATACTTTAGAAGAACAGAAGAACCCTC
ACAGTCTGTCTGATGGAGCACTTTTTGAACAGAAAGGTCCAGTTTATGTTGCATGTCAGTTTTCCTATTTTCATTA
CTTCAAGCATGCAGTGGTATGAATGATCCTGATTTTGGCTATTCTCAAGGAAACCCTTGTATTCTTGTGAAAATG
AACAGAATAATTGGATTAAAGCCTGAAGGAGTGCCAAGGATAGATTGTGTTTTCAAAGAATGAAGATATACCAAAT
GTAGCAGTTTATCCTCATAATGGAATGATAGACTTAAAATATTTCCCATATTATGGGAAAAAACTGCATGTTGGG
TATCTACAGCCATTGGTTGCTGTTTCAGGTCAGCTTTGCTCCTAACAACTGGGAAAGAAGTAACAGTTGAGTGC
AAGATTGATGGATCAGCCAACCTAAAAAGTCAGGATGATCGTGACAAGTTTTTGGGACGAGTTATGTTCAAATC
ACAGCACGTGCATTAGTATGAGTAGGATATCTCCACAGAGTAAATGTTGTGTTGTCTGTCTTCATTTTGTAACAGC
TGGACCTTCCATTCTAGAATTATGAGACCACCTTGGAGAAAGGTGTGTGGTACATGACATTGGGTTACATCATAA
CGTGCTTCCAGATCATAGTGTTCAGTGTCTCTGAAGTAACTGCCTGTTGCCTCTGCTGCCCTTTGAACCAGTGT
ACAGTCGCCAGATAGGGACCGGTGAACACCTGATTCCAAACATGTAGGATGGGGTCTTGTCTCTTTTTATGTG
GTTTAATTGCCAAGTGTCTAAAGCTTAATATGCCGTGCTATGTAAATATTTTATGGATATAACAACTGTCATATT
TTGATGTCAACAGAGTTTTAGGGATAAAATGGTACCCGGCCAACATCAAGTGACTTTATAGCTGCAAGAAATGTG
GTATGTGGAGAAGTTCTGTATGTGAGGAAGGAAAAAAGAAAATAAAAGTGTGTTTGAAAAATATTATCTTGGGT
TCTTTGTAATAATTTATTTTTTACATGCTGAATTAGCCTCGATCTTTTTGATTAAAGAGCACAACTTTTTTTGT
AAACATGTAAAAAATACTGGGATTAATTTTTAGTGTGGAACTGCCTCTTATTTTAGGCTGTAGATAAAATA
GCATTTTAGGTTAGCCAGTGTGACTATGCACCTAATTTTTTATGAGATTAAATTCATAAGACTTAATTTGTACA
ATAGTTTGTGAAATATCTTGTTACTGCTTTTTATTTAGCAGACTGTGGACTGTAATAAAGTATATAAATTGTGAAA
TATAAAAACTTGGAACTTATTCAAAGCTT

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FIGURE 1320

MTKNEKKSLNQSLAEWKLF IYNPTTGEFLGRTAKSWGLILLFYLVFYGF LAALFSFTMWVMLQTLNDEV PKYRDQ
IPSPGLMVFPKPVTALEYTFSRSDPTSYAGYIEDLKKFLKPYTLEE QKNLTVCPDGALFEQKGPVYVACQFPISL
LQACSGMNDPDPFGYSQGNPCILVKMNRIIGLKPEGVPRIDCVSKNEDIPNVAVYPHNGMIDLKYFPYYGKKLHVG
YLQPLVAVQVSFAPNNTGKEVTVECKIDGSANLKSQDDRDKFLGRVMFKITARA

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FIGURE 1321

CCCTTACATCCTCCTAGGACCCGGTCGGTAGTCGTCGCCCCAGCCCGCCGGGGGCGCAGCGCCCGAGCCGCGGCC
CTCGAGACGGGACCGAGAGCATC**ATGGGC**CAGCACTGTCCCGCGCTCCGCCTCCGTGCTGCTTCTGCTGCTGCTCC
TGCGCCGGGCGGAGCAGCCCTGCGGGGCGGAGCTCACCTTCGAGCTGCCGGACAACGCCAAGCAGTGCTTCCACG
AGGAGGTGGAGCAGGGCGTGAAGTTCTCCCTGGATTACCAGGTCATCACTGGAGGCCACTACGATGTTGACTGCT
ATGTAGAGGACCCCCAGGGGAACACCATCTACAGAGAAACGAAGAAGCAGTACGACAGCTTCACGTACCGGGCTG
AAGTCAAGGGCGTTTATCAGTTTTGCTTCAGTAATGAGTTTTCCACCTTCTCTCACAAAGACCGTCTACTTTGACT
TTCAAGTGGGCGATGAGCCTCCCATTTCTCCCAGACATGGGGAACAGGGTCACAGCTCTCACCCAGATGGAGTCCG
CCTGCGTGACCATCCATGAGGCTCTGAAAACGGTGATTGACTCCCAGACGCATTACCGGCTGCGGGAGGCCCAGG
ACCGGGCCCCGAGCGGAAGACCTTAATAGCCGAGTCTCTTACTGGTCTGTTGGCGAGACGATTGCCCTGTTTCGTGG
TCAGCTTCAGTCAGGTGCTACTGTTGAAAAGCTTCTTTCACAGAAAAACGACCCATCAGCAGGGCAGTCCACTCC**T**
AGCCCCGGCATCCTGCTCTAGGGCCCCCTCATGCCCCAGGCTGGAGCAGCTCTCCTAGGTCACAGCCTGCTGGGCT
GGGTGCGGTAGCCAGGGTGGAGGCAGAACGATGCTGCTGTGGTAGCCCTTTGCCTTTTCATGCCCATGCTTGATT
CTTGACCTCAGCAGCTGAAGGTCTCAGAGACCAGTAATCAGAAGGCATCCGACTGCATTAAGTGTGCAGCGCTG
AAAAGACATTTACAACCTAGGCCAGGGATTAGCCACTGTGGGAGGGTGGACAGGCAATGGTTCAGTGGCCTGGCTG
TTGGCAGGAACCTCCAAGTGCCAGGCCTCTTGGGCAGCTTAGGGCCCTGCCTCTGTTTCATGATGCATGGGTCAT
TTGTCTTGGGTGTCCTATCCCATATGGAGAAGAAAGGGGCTCTAAGTTCTGGCTCTTCTTTCTTGGGGTTCTCT
GTACCTGAGGAAACCAGGCCCTGGGTGACTTTGCAGATCTGCTCACCTCGGTGAGCAACAGTGTGAGCCATGCA
AGCAGGACAGAATGGTGACTGGGTGCCCTTGGTGAGCTGTGTATTTCTAGGAGGTAGAAAAGTGTGGGAACTG
TGGCTAATAAAAACTAAGTGTGAGCGTCAA
AAAAAA

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FIGURE 1322

MGSTVPRSASVLLLLLLLLRRAEQPCGAELTFELPDNAKQCFHEEVEQGVKFSLDYQVITGGHYDVCYVEDPQGN
TIYRETKKQYDSFTYRAEVKGVYQFCFSNEFSTFSHKT VYFDFQVGDEPPILPDMGNRV TALTQMESACVTIHEA
LKTVIDSQTHYRLREAQDRARAEDLNSRVSYWSVGETIALFVVSFSQVLLKSFTEKRPISR AVHS

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FIGURE 1323A

CAACCTCCAGCCAGTCCCTGGGTCGGGCGGATCCTCCCAGAGGTGGCACAATGGAGCGATCTCCAGGAGAGGGCC
CCAGCCCCAGCCCCATGGACCAGCCCTCTGCTCCCTCCGACCCCACTGACCAGCCCCCGCTGCTCACGCAAAGC
CAGACCCAGGTTCTGGGGGCCAACCTGCTGGCCCTGGCGCGGCGGGTGAGGCCCTGGCGGTGCTGACTTCATTTCG
GGAGGCGGTTGCTGGTGCTGATACCTGTGTATTGGCCGGGCGAGTGGGACTCAGCGTGGGTTTCGTGCTCTTCG
GCCTCGCCCTCTACCTGGGCTGGCGCCGGGTCCGCGACGAGAAAGAACGGAGCCTTCGAGCAGCGAGGCAGCTAC
TGGACGACGAGGAGCAGCTCACTGCGAAAACCTCTCTATATGAGTCATCGAGAGCTACCTGCCTGGGTGAGCTTCC
CAGACGTGGAAGGCTGAATGGCTCAATAAGATTGTGGCCAGGTCTGGCCCTTCCTGGGCCAGTATATGGAGA
AGCTTCTGGCTGAAACTGTGGCTCCGGCTGTTAGGGGATCTAACCCCATCTGCAAACATTTACATTTACACGAG
TGGAACGGGTGAAAAGCCATTGCGCATCATTGGAGTCAAGGTTACCCAGGTGAGAGAAAAGAGCAGATCCTGC
TGGACTTGAACATCAGCTATGTAGGTGATGTGCAGATTGATGTGGAAGTGAAGAAATATTTTTCGAAAGCAGGAG
TCAAGGGCATGCAGCTACATGGCGTTTTGCGGGTGATACTGGAGCCACTCATTGGGGACCTTCCCTTCGTGGGGG
CTGTGTCAATGTTCTTCATCCGACGCCCCGACCCTAGACATCAACTGGACAGGGATGACCAACCTGCTGGATATCC
CAGGACTTAGCTCACTCTCTGACACCATGATCATGGACTCCATTGCTGCCTTCCTCGTGTTGCCCAACCGATTAC
TGGTGCCCTTGTGCCTGACCTTCAAGATGTGGCTCAGTTGCGTTCCCTCTGCCCAGGGGCATTATTTCGAATTC
ACCTGCTGGCTGCTCGAGGGCTGAGTTCCAAGGACAAATATGTGAAGGGCCTGATTGAGGGCAAGTCAGACCCAT
ATGCACTTGTGCGTTTGGGTACCCAGACATTCTGCAGTCGTGTCAATTGATGAAGAACTCAACCCACAGTGGGGAG
AGACTTATGAGGTGATGGTACACGAGGTCCCAGGGCAGGAGATTGAAGTGGAGGTGTTTCGACAAGGATCCAGATA
AAGATGACTTTCTGGGCAGAATGAAGCTGGATGTAGGGAAGGTGTTACAGGCTAGCGTTCTGGATGATTGGTTCC
CTCTACAAGGTGGGCAAGGCCAAGTTCACTTGAGGCTAGAATGGCTGTCACTTTTGTGAGATGCAGAGAACTGG
AGCAGGTTCTACAGTGAATTGGGGAGTCTCCTCTCGACCAGATCCCCCGTCAGCTGCCATCTTAGTTGTCTACC
TGGATCGGGCCAGGATCTTCCTCTGAAGAAGGGGAACAAGGAACCCAACCTATGGTACAACCTGTCAATTCAGG
ATGTGACTCAGGAGAGCAAGGCTGTCTACAGTACCAACTGCCCAGTGTGGGAGGAAGCGTTCCGGTTCTTCTAC
AAGACCTCAGAGCCAGGAGCTCGATGTGCAAGTGAAGGATGATTCCAGGGCCCTGACTTTAGGAGCACTGACGC
TGCTCTGGCCCGCTGCTGACTGCCCCAGAATCATCTGGACCAGTGGTTCCAGCTCAGCAGCTCTGGTCCAA
ACTCCAGACTCTATATGAACTAGTCATGAGGATCCTGTACTTGGATTATCAGAAATATGCTTCCCCACGGTGC
CTGGTTGTCTGGTGCTTGGGACGTGGACAGTGAGAATCCCCAGAGAGGCAGCAGTGTGGATGCCCCACCTCGAC
CCTGTACACGACTCCTGATAGCCAGTTTGGGACTGAGCATGTGCTTCGGATCCATGTATTAGAGGCCAGGACC
TGATTGCCAAAGACCGTTTCTTGGGGGACTGGTGAAGGGCAAGTCAGACCCCTATGTCAAATAAAGTTGGCAG
GACGAAGCTTCCGGAGCCATGTTGTTTCGGGAAGATCTCAATCCCCGCTGGAATGAGGTTTTTGGAGTGATCGTCA
CATCAGTTCCAGGCCAAGAGCTAGAGGTTGAAGTCTTTGACAAGGACTTGGACAAGGATGATTTTCTGGGCAGGT
GTAAAGTGCGTCTCACCACAGTCTTAAACAGTGGCTTCCCTTGATGAGTGGCTGACCCTGGAGGATGTCCCATCTG
GCCGCTGCACCTTGCCTGGAGCGTCTCACCCCCCGTCCCACTGCTGCTGAGTTAGAGGAGGTGCTGCAGGTGA
ATAGTTTGATCCAGACTCAGAAGAGTGCAGGAGTGGCTGCGGCCCTGCTATCCATCTATATGGAGCGGGCAGAGG
ACCTCCCGCTGCGAAAAGGCACCAAGCACCTCAGCCCTTATGCTACTCTCACTGTGGGAGATAGTTCTCATAAAA
CCAAGACTATTTTCGCAAACCTTCAGCCCTGTCTGGGATGAGAGTGCCCTCCTTTCTCATCAGGAAACCACACTG
AGAGCCTAGAGTTGCAGGTTTCGGGTGAGGGCACTGGCGTCTGGGCTCATTATCCCTGCCCTCTCAGAGCTCC
TCGTGGCTGACCAGCTCTGCTTGGACCGCTGGTTTACACTCAGCAGTGGTCAGGGGCAGGTGCTACTGAGAGCAC
AGCTAGGGATCCTGGTGTCCAGCACTCGGGAGTGGAAGCTCATAGCCACAGCTACAGCCACAGCTCCTCATCGC
TGAGTGAAGAACCAGAGCTCTCGGGGGACCCCTCACATCACTCCTCAGCCCCAGAGCTCCGGCAGCGCCTAA
CACATGTTGACAGTCCCCCTGAGGCTCCAGCCGGGCTCTGGGCCAGGTGAACTGACTCTGTGGTACTACAGTG
AAGAACGAAAGCTGGTCAGCATTGTTTATGTTGCGGTCCCTTCGACAGAATGGACGTGATCTCCTGATCCCT
ATGTGTCACTGTTGCTACTGCCAGACAAGAACCAGGACCAAGAGGAGGACCTCACAGAAGAAGAGGACCTGA
GTCCTGAATTTAATGAACGGTTTGAAGTGGGAACTCCCCCTGGATGAGGCCAGAGACGAAAGCTGGATGTCTCTG
TCAAGTCTAATTCCTCCTTCATGTCAAGAGAGCGTGAGCTGCTGGGGAAGGTGCAGCTGGACCTAGCTGAGACAG
ACCTTTCCAGGGTGTAGCCCGGTGGTATGACCTGATGGACAACAAGGACAAGGGCAGCTCCTAGGAGCTGGCGA
GTCCAGCCTGACTGCTCTGTCTTCTGCTTCGTCTCGCTCCATCACCGCCTCAATGTGATGAGCCTAAAGCTA
GGGTCCAAGGGCAGAGCCTGTGCCCTTCAGCCCTTTCACCTAACAGGCCCCATATTCGGGCTTTGCTGACCAAA
GAGAAGAACCGTATGTTCCCTTTACTGCACGGCCTTTATCCTTCTGGGCCCCCTGGGGCGGGGACCTGAGCTGGCT

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FIGURE 1323B

GTTTCCTGCTTTGCCTGCACATTGTTCTCCCTTCCTCCCAACTCCTCAGGGCCTTCTGTATCTGTGCCTGGCCAG
TGGCAGCACTAGCAGTGGTATTAGCTTATGCCAAATACAGCTTTGGAAGGATCTTTTTTCTTTAACTAGATGGT
CACCTTCTTCCCTACCACACATGGGTGGGAAGGTGGACAGGCTAACCTCTCCAGCTGTGAGCCTCTTAGACTACT
GCATGTAGCAAATGTTTCAGCAGCTCAGGCCCCCATGTCCAGTTCTGTCCCCACTGTCCTCAACCCTGTCCTGAAA
ATTCTACTGCTTTGATGGCTGGGGCCAGTCTCTTGTCACCTTTGGAACTGAGGACGCGTGGATTCTACTCAAGCC
TCCAAGTAGTGGCATATCAGTCTTGGAGCTCCTAGCTGGTGATACGGAGAGGGCTTTGGAGGACTTGGGACAGCA
GGGCCAATTTTTTTGCCCAAGTGCCTAGGCTGCTAACTCACTGACTAGAACTTAATCTGGTACTTTACAGTTTTG
CACCAACTCTGCCAAGCCACTGGATCTTACATTAAACATCATACTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1324

MERSPGEGPSPSPMDQPSAPSDPTDQPPAAHAKPDPGSGGQPAGPGAAGEALAVLTSFGRRLVLIPVYLAGAVG
LSVGFVLFGLALYLGWRRVRDEKERSLRAARQLLDDEEQLTAKTLYMSHRELPAWVSFPDVEKAEWLNKIVAQVW
PFLGQYMEKLLAETVAPAVRGSNPHLQTFTFTRVELGEKPLRIIGVKVHPGQRKEQILLDLNISYVGDVQIDVEV
KKYFCKAGVKGMQLHGVLRVILEFLIGDLPFVGA VSMFFIRRP TLDINWTGMTNLLDIPGLSSLSDTMIMDSIAA
FLVLPNRLLVPLVPDLQDVAQLRSPLPRGIIRIHLLAARGLSSKDKYVKGLIEGKSDPYALVRLGTQTFC SRVID
EELNPQWGETYEVMVHEVPGQEIEVEVFDDKDPDKDDFLGRMKLDVGKVLQASVLD DWFPLQGGQGQVHLRLEWLS
LLSDAEKLEQVLQWNWGVSSRPDPSPAAILVVYLDRAQDLPLKKGNKEPNPMVQLSIQDVTQESKAVYSTNCPVW
EEAFRFFLQDPQSQELDVQVKDDSRALT LGALTPLARLLTAPELILDQWFQLSSSGPNSRLYMKLVMRILYLD S
SEICFPTVPGCPGAWDVDS ENPQRGSSVDAPPRCHTTPDSQFGTEHVLRIHVLEAQDLIAKDRFLGGLVKGKSD
PYVKLKLAGRSFRSHVVREDLNPRWNEVF EIVITSVPGQELEV EVDKDLDKDDFLGRCKVRLTTVLNSGFLEW
LTLEDVPSGRLHLRLERLTPRPTAAEEVLQVNSLIQTQKSAELAAALLSIYMERAE DLPLRKGTKHLSPYATL
TVGDSSHKT KTISQTSAPVWDESASFLIRKPHTESLELQVRGEGTGVLGSLSLPLSELLVADQLCLDRWFTLSSG
QGQVLLRAQLGILVSQHSGVEAHSHSYSHSSSSLS EEP ELSGGPPHITSSAPELRQRLTHVDSPLEAPAGPLGQV
KLTLWYYSEERKLVSIVHGCRSLRQNGRDPDPYVSLLLLPDKNRGTRKRTS QKKRTLSPEFNERFEWELPLDEA
QRRKLDVSVKSNSSFMSRERELLGKVQLDLAETDLSQGVARWYDLMDNKGSS

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FIGURE 1325

GAATTCGCTTTGGATCCATTTCCATCGGTCCTTACAGCCGCTCGTCAGACTCCAGCAGCCAAG**ATGG**TGAAGCAG
ATCGAGAGCAAGACTGCTTTTCAGGAAGCCTTGGACGCTGCAGGTGATAAACTTGTAGTAGTTGACTTCTCAGCC
ACGTGGTGTGGGCCTTGCAAAATGATCAACCCTTCTTTTCATTCCCTCTCTGAAAAGTATTCCAACGTGATATTC
CTTGAAGTAGATGTGGATGACTGTCAGGATGTTGCTTCAGAGTGTGAAGTCAAATGCACGCCAACATTCCAGTTT
TTTAAGAAGGGACAAAAGGTGGGTGAATTTTCTGGAGCCAATAAGGAAAAGCTTGAAGCCACCATTAAATGAATTA
GTC**TAA**TCATGTTTTCTGAAAACATAACCAGCCATTGGCTATTTAAACTTGTATTTTTTTTATTTACAAAATATAA
ATATGAAGACATAACCAGTTGCCATCTGCGTGACAATAAACATTATGCTAA

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FIGURE 1326

MVKQIESKTAFQEALDAAGDKLVVVDFSATWCGPCKMINPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCTP
TFQFFKKGQKVGEFSGANKEKLEATINELV

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FIGURE 1327

CTTGGAGGGAGGGATTAGAAGCCGCTAGACTTTTTTTCCTCCCCTCTCAGTAGCACGGAGTCCGAATTAATTGGA
TTTCATTCACTGGGGAGGAACAAAACTATCTGGGCAGCTTCATTGAGAGAGATTTCATTGACACTAAGAGCCAGC
GGCTGCAGCTGGGTGCAGAGAGAACCTCCGGCTTTACTTCTGTCTCGTCTGCCCCAACCGCTAGCCTCGGCTTGG
GTAAGGCGAGGCGGAATTAAACCCCGCTCCGAGAGCGGCAGCTTCGCGCGCGGTGCGCTCGGCCTATGCCGTGCC
CGAGGGGCGTCTGGTAGGCACCCCGCCCTCTCCCGCAGCTCGACCCCC**ATG**ATAGATACGCTCAGACCCGTGCC
TTCGCGTCGGAAATGGCGATCAGCAAGACGGTGGCGTGGCTCAACGAGCAGCTGGAGCTGGGCAACGAGCGGCTG
CTGCTGATGGACTGCCGGCCGCAGGAGCTATACGAGTCGTCGCACATCGAGTCGGCCATCAACGTGGCCATCCCG
GGCATCATGCTGCGGCGCCTGCAGAAGGGTAACCTGCCGGTGC GCGCGCTCTTCACGCGCGGCGAGGACCGGGAC
CGCTTCACCCGGCGCTGTGGCACCGACACAGTGGTGTCTACGACGAGAGCAGCAGCGACTGGAACGAGAATACG
GGCGGCGAGTCGTTGCTCGGGCTGCTGCTCAAGAAGCTCAAGGACGAGGGCTGCCGGGCGTTCTACCTGGAAGGT
GGCTTCAGTAAGTTCCAAGCCGAGTTCTCCCTGCATTGCGAGACCAATCTAGACGGCTCGTGTAGCAGCAGCTCG
CCGCCGTTGCCAGTGTGGGGCTCGGGGGCTGCGGATCAGCTCTGACTCTTCCTCGGACATCGAGTCTGACCTT
GACCGAGACCCCAATAGTGCAACAGACTCGGATGGTAGTCCGCTGTCCAACAGCCAGCCTTCCTTCCCAGTGGAG
ATCTTGCCCTTCCTCTACTTGGGCTGTGCCAAAGACTCCACCAACTTGGACGTGTTGGAGGAATTCGGCATCAAG
TACATCTTGAACGTCACCCCAATTTGCCGAATCTCTTTGAGAACGCAGGAGAGTTTTAAATACAAGCAATCCCC
ATCTCGGATCACTGGAGCCAAAACCTGTCCAGTTTTTCCCTGAGGCCATTTCTTTTATAGATGAAGCCCGGGGC
AAGAACTGTGGTGTCTTGGTACATTGCTTGGCTGGCATTAGCCGCTCAGTCACTGTGACTGTGGCTTACCTTATG
CAGAAGCTCAATCTGTCGATGAACGATGCCTATGACATTGTCAAAATGAAAAATCCAACATATCCCTAACTTC
AACTTCATGGGTCAGCTGCTGGACTTCGAGAGGACGCTGGGACTCAGCAGCCCATGTGACAACAGGGTTCCAGCA
CAGCAGCTGTATTTTACCACCCCTTCCAACCAGAATGTATACCAGGTGGACTCTCTGCAATCTACG**TGA**AAGACC
CCACATCCCTCCTTGTGGAATGTGTCTGGCCCTTCAGCAGTTTTCTTGGCAGCATCAGCTGGGCTGCTTTCTT
TGTGTGTGGCCCCAGGTGTCAAAATGACACCAGCTGTCTGTACTAGACAAGGTTACCAAGTGC GGAATTGGTTAA
TACTAACAGAGAGATTTGCTCCATTCTCTTTGGAATAACAGGACATGCTGTATAGATACAGGCAGTAGGTTTGCT
CTGTACCCATGTGTACAGCCTACCCATGCAGGGACTGGGATTTCGAGGACTTCCAGGCGCATAGGGTAGAACCAAA
TGATAGGGTAGGAGCATGTGTTCTTTAGGGCCTTGTAAGGCTGTTTCTTTTGCATCTGGAAGTACTATATAAT
TGTCTTCAATGAAGACTAATTCAATTTTGCATATAGAGGAGCCAAAGAGAGATTTAGCTCTGTATTTGTGGTAT
CAGTTTGGAAAAAAAATCTGATACTCCATTTGATTATTGTAAATATTTGATCTTGAATCACTTGACAGTGTGTTG
TTTGAATTGTGTTTGTGTTTTTCTTTTGTATGGGCTTAAAGAAATTATCCAAAGGGAGAAAGAGCAGTATGCCACT
TCTTAAACAGAACAAAAACAAAAAAGAAAATTGTGCTCTTTTCTAATCCAAAGGGTATATTTGCAGCATGCTTG
ACTTTACCAATTCTGATGACATCTTTACGGACACTATTATCACTAAGACCTTGTTATGGCGAAGTCTTTAGTCTT
TTTCATGTATTTTCTCATGATTTTTTCTCTTTATGTAGTTTGACTATGCCCTTACCTTTGTAAATATTTTTGCTT
GTGTTGTGCGAAAGGGGATAATCTGGGAAAGACACCAATCATGGGCTCACTTTAAAAAAGAAAGAATAAAAAA
ACCTTCAGCTGTGCTAAACAGTATATTACCTCTGTATAAAATTCCTCAGGGAGTGTCACCTCAAATGCAATACTT
TGGGTTGGTTTCTTTCTTTAAAAAATTTGTATAAACTGGAAGTGTGTGTGTGTGAGCATGGGTACCCATTTG
ATAAGAGAAATGCATTTGATTGTGAAGAAGGGAGAGTTAAATCTCCATTATGTTGTTGTAAGTTTAGAGC
TGGAATTTATTATAAGAATGTAAAACCTTAAATTATTAATAAATAACTATTTTGGCTATTGAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1328

MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMDCRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRA
LFTRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGESLLGLLLKKLKDEGCRAFYLEGGFSKFQAEFSLHCETN
LDGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPNSATDSDGSPLSNSQPSFPVEILPFLYLGC AKDSTNL
DVLEEFGIKYILNVTPLNLPNLFENAGEFKYKQIPISDHWSQNLSQFFPEAISFIDEARGKNCGVLVHCLAGISRS
VTVTVAYLMQKLNLSMNDAYDIVKMKKSNI SPNFNFMGQLLDFERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQV
DSLQST